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Thesis

THE COLLECTED VASCULAR FLORA OF

GRAFTON COUNTY, NEW HAMPSHIRE

Submitted by

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(A. B., Boston University, 1930)

In partial fulfilment of requirements for

the degree of Master of Arts

1932

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DESCRIPTION OF STREET

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AND DESCRIPTION OF THE PARTY.

INTRODUCTION

A local flora consists of a list of the plants found growing without cultivation in a given locality. The ideal local flora would include all the plants growing wild within its scope, but unless the area is very limited in size this state of perfection is probably never attained. In fact the flora of a region is never in a static condition, but is constantly changing, new plants being introduced from other parts of the world and native plants being crowded out and exterminated by man or by the more vigorous introduced weeds.

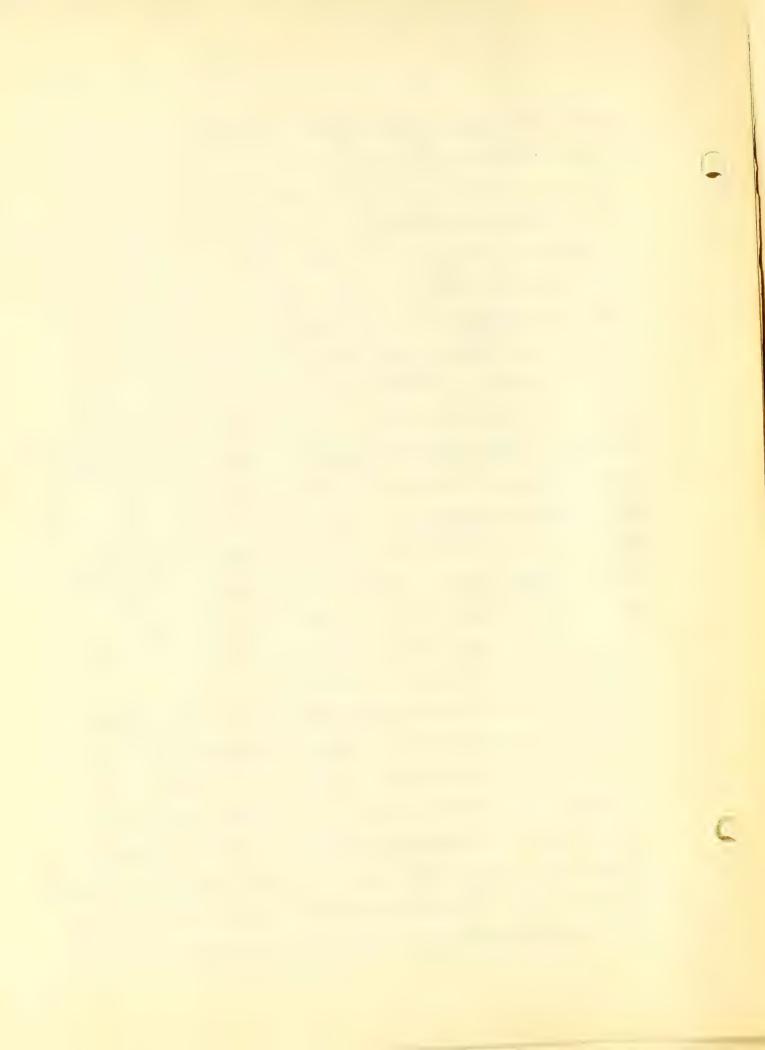
I.

In its most restricted form the local flora consists merely of a list of the plants found with no annotations. Unless the area studied is very limited this type of flora is only of slight value to the serious botanist. To be really usefulit should record under each species cited a list of the exact localities in which the plant has been found, the collector, the date collected, and the herbarium in which the specimen has been deposited. This information will enable any botanist to locate the material if he wishes to check the correctness of the determination of any rare or questionable species. Various other notes will enhance the value of the work such as the kind of habitat in which the plant was found, the plants with which it was associated, the time of flowering and of fruiting of the plant, the distribution of the plant within the range of the flora and its general distribution thruout the world, the common name of the plant, and any of its economic uses. Keys to the more difficult genera may also prove

helpful if the number of precies involved is such less than the purber treated by

The size of the area studied varies greatly. flora of one's own back ward would prove interesting. The boundaries may be netural, political, or artificial. In island, or the drainage basin of some lake or river are good examples of the type with natural boundaries. Firold talohn's able Tames's Tura of the Jamu a Lake Rasin, 'ew York are both works of this type. Apre commonly a definite political area such as a town, county, state, or even country is studied. iss ira Bartlett's Partial hist of the ild "lowers found Growing in the "latv-two times lies Comprised in the City of Haverhill is an example of a town flore. . . Teste's Vascular Flora of Coos County, sw Hampshire of a county flore, and I. Tidestron's Flore of itah and Tevada of a state flora. H. L. Jesup's Flora and Tama within Thirty miles of Manuver, . H. has a purely artificial limit which includes parts of two states, several cointies, and nimerous towns. The scine of the present work falls into the caterory of the political area, laid the flora of one county in the state of New Hampshire.

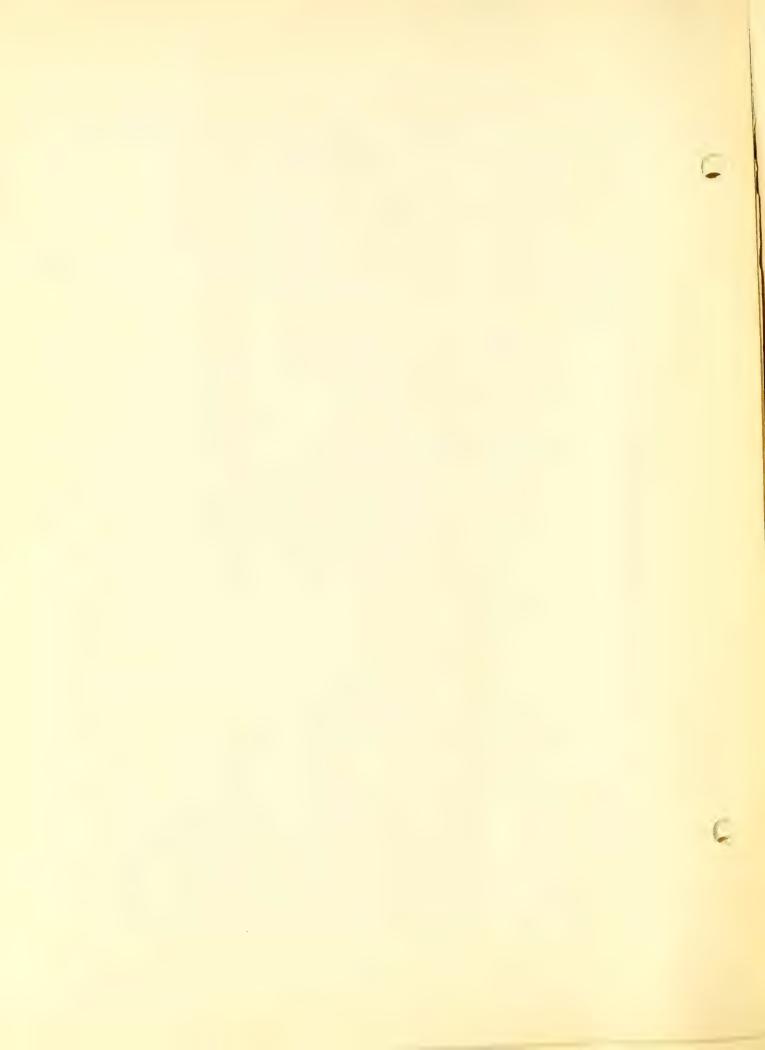
a great amount of work must be done before a local flora is ready to be builtished. The botanist must make extensive collections in the area which he is studying. If the territory is small, one may be able to visit practically all the country included. If a country or a state is being worked, however, it is impossible to collect in every mook and corner. It definite plan of work must be arranged. We making a thorough study available topographical maps of the district, one should be able to plot but certain types of habitats which will be more or less characteristic of the region



there wantly there can visit these snots and collect intensively in the country that ereas. If these places have been picked with discrimination, one should in time derive a good generalized idea of the plants found within the range one's flora. It is well to attack each individual town in this manner in a country flora in order to obtain sufficient evidence on which to have one's ideas of the distribution of the plant thru the district.

In order to include as samp introduced species as possible it is well to visit certain rather unusual types of habitats. Indireses has a clone been known to carry sands of plants for miles and thus railroad tracks, embankments, and freight wards will often provide new and interesting records. The alluvial flood plains of rivers are another source of novelties. Along the seaccast the waste land about docks is worth visiting. The ground about mills which use raw sateriels from other parts of the world are almost sure to wield un their share, woolen wills being particularly fruitful in this respect. As search around large poultry farms will nearly always produce some expticularly introduced in the moultry feed. In conclusion, the town duens are always worthy of a careful inspection for introduced rarities.

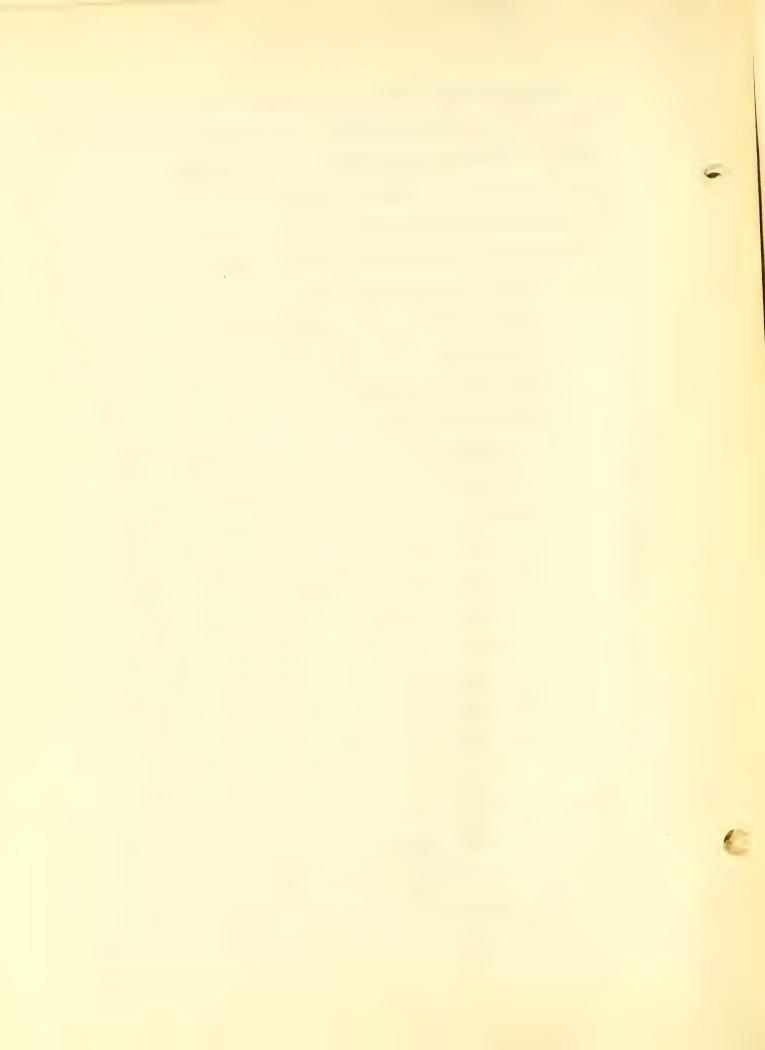
secritical determinations are very difficult to take in the field, smediants of much species should be collected, nresed, and sounted so that commute identifications may be made at one future time where adepute the right of commute to make a confidence of ditional flowers and fruit when obtainable should be collected and placed in pockets on the state attachment the plants. The plants of collection trips a field notebook



was collected, the date, the collector, the habitat, plants rowing meantw, color of blossom, and any other information which might to of assistance when attemption to identify the specimen. Hen the plant is placed
in the cross to dry, this information should be transferred to the paper
in which the plant is being dried. Thus the information and the plant
are kent to etter. Lanv collectors place only a number on the sheet in
which the plant is being dried and a corresponding number reside the
information in the book. If the notebook is lost, all the information
is some one the plants are worthless. For this reason it seems for
better to place the data directly upon the sheet.

and plants should be collected twice during the year, unce when they are in flower and again when the fruit have matured. The plants such as the blackberries must be collected on two successive years in order to obtain the first and second year stalks. Specimens should be taken from the identical plant which may be marked by a tag or by some sign at the time of the first collection. The herbarium becomes much more valuable for reference if specimens of as any as possible of the phases in the life of the plant are collected. Thus winter buds, whater tweat resettes, flowers, fruit, and seed are all important. Cans of veretative reproduction such as bulks, stalons, tulers, corms, etc. should be shown whenever spesible.

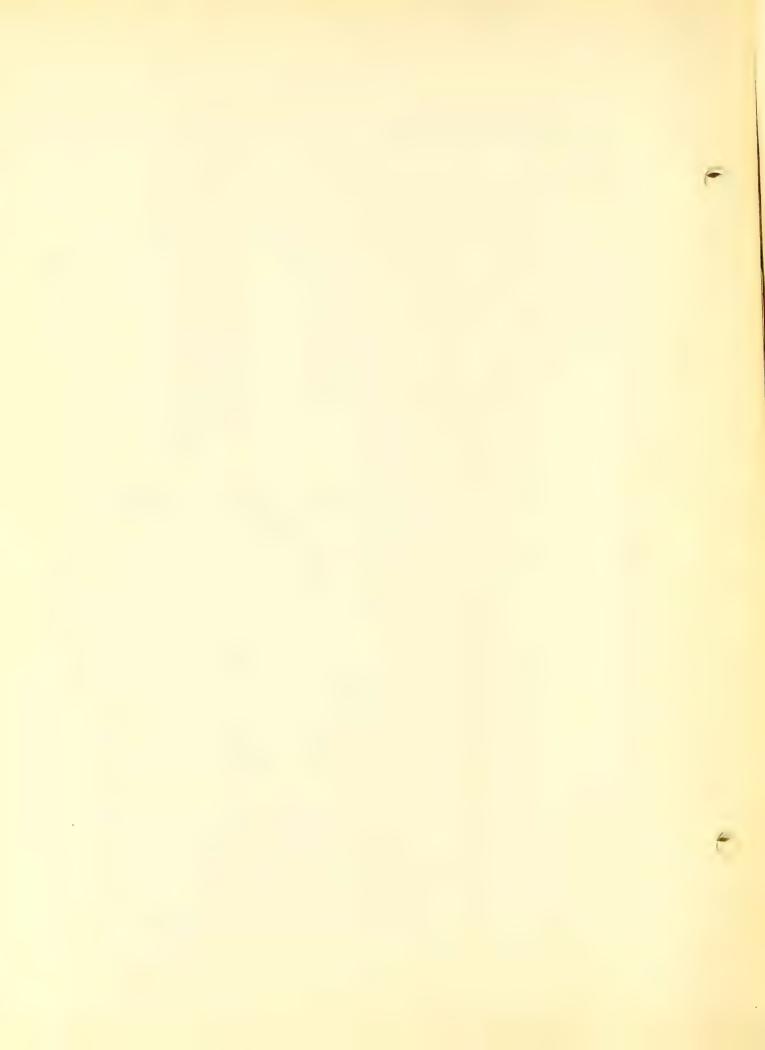
the herbarium should be kent during the neriod in which the flore is being prenared. After the publication of the list the collection may be disposed of as one sees fit. It seems wise however to don't all the open cited to some line we herbarium where the she to remailly evailable for study and verification became attached the divise to refer to them.



the local flore. There is the local state for the part hundred cours have orthedly collected for or local extensively in the same district and rower
essentially die taken of their sort. It have a difficult to trace
ell such collections but one should evanine the sheets in nearly terhariums
for records. For example, in Tew molend a fair idea of the work of other
collectors was be obtained if one soes thru the collections at the drav
Herbarkum and the law instand Totahical Tub at the rev instans in
antrides, and the herbarism at the Ioston locative of stated Theory.
Colleges and local natural history societies often have collections of
plants from the immediate vicinity.

in the district and has located as menu as possible of the one to of other collectors, the actual writing of the list may be commenced. It is well to been one's records in a card catalogue erranged in relocance order, in which case the halk of the writing will consist of conving the information collected on the cards. The flora should commence with an introduction which describes the political and natural divisions within the area, the important presidence features, soil conditions, and temerature and rainfall reports. I charter on plant associations in the region will also be valuable.

includes only those plants which have already been collected in the county whotalists other than the author. The exharia of the may be the risk of the manual laboration.



Natural Nietory, and the unrelachian ountain This wife in a fundamental fine construction of 1970-31, sany thousands of sheets having the example of the search. In addition numerous records are included from Jeaun's (1.)

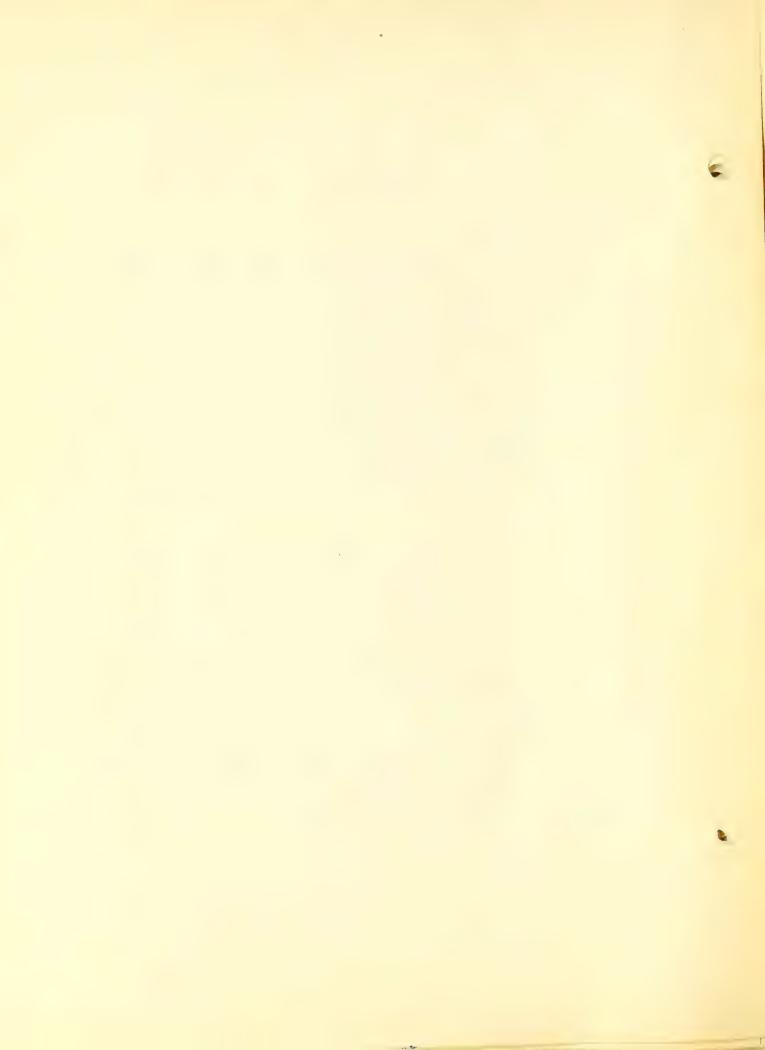
There and have within Thirty them of Henrich, ".K., " of the mitture has seen only a few of leaun's wheets such resorts are a collistive ferrich as not never here were feen. Hew records from other censes have also been included, but in every case and resorts are soled as our collection.



. IYSI BUBAFHY

I. Location and area

Hemshire. It is bounded on the west by the Connected liver, in the north two one County, on the east by tope, Carroll, and elknam outlies, and on the south by Verrilack and illivan counties. The county resons its set northerly limit in Littleton (lat. 4 24), its most southern in infiel and western (lat. 17 72), its most eastern in livermore ('M. 71 20), and its most western in Lebanon (lang. 72 10). The area of the county is 77,000 and or short 150), there miles.



יעי מייי וייי.

e reter mark of the county is brained by the probable it and the Fall severage to their tributaries. Distinguished the county is to the draining of the law of the county is to the draining of the law of the law of the for a tribe divide three rivers the surrier with sunt selfertary the distinction of being trible divides in the little bundains. (1,)

enters the country on paint field and passes no riverest are the frince country on paint field and passes no riverest are the frince from the field to the Land Land and the field to the foodstock Penton boundary to Mount Mossilauke. From Mossilauke it descends to Oliverian Notch in Warren and up over the hills in Parren to Ore Hill, then across the southeast corner of Piermont to Dute ountain and there at yount and game in France. From Mossilauke it passes over from a small and then parts south that the flow of the file was a first that the flow of the file was a first that the flow of the small and the paste of the flow of the flow of the small and the file of the flow of the small and the country of the flow of the small and the country of the flow of the small and the country of the flow of the small and the country of the flow of the small and the country of the flow of the small and the country of the flow of the small and the country of the flow of the flow

miles, during which it drops from 674 to 339 feet above sea level, a descent of 175 feet. The principal tributories of the constitute fiver in Fractor county are the horer microssuc liver in it., liverian

- 1. Pase 1924 Proc. Poston Se. of . West. 37 47. n.49.
- 2. Hitchcock Geol. N.H. 1. p. 299-502.



in Lebenom. If these the lar set and most important is the " mer Arrenoceuc which, having its heads in various small streeps about the height of land in Grawford Dotch, drains at least wints. I this times of Esthiches, iver one, remaining littleton, lithus, iman, into a large part of heverhill. Eastmans Brook is restricted to Piermont and the Lascos: Five for the Landau, Infield, and Lebenow. (1.)

The remarkable liver, running as it does thrus the center of the county, drains a large mark of the area being studied. The sauce is Profile Large is renconia, 1747 feet above one level. It runs torus the towns of liveola, sudstock, shornton, senton, slymouth, Tolderness, Ashland, Fridernesser, and Fristol. The more is content tributaries of the Pemigewasset Fiver are the East Branch in Woodstock, the Wad and Beabe livers is conton, the Proof Siver in Thought, the large iver in schland, and the exfound and eiths ivers in ristol. We not Franch that erest area known at the eligenesset liverness which is bounded on the north by the Ammonoosuc watershed, on the east by the Sang watershed, on the south by the candwich so missing, and on the special for the larger cases of the Parker Your Juneary. Sets at the times of sterville, liversore, liccoln, Franconia, and Jetalah area included to this drains a basin. He had I were drains the times of

Witchroek West. . . 1. -. 302-505.



line in andwick and flow that anatom. The after were in an automate the modern and flow that anatom. The after were in a number of processing the anatom, the new and the control of processes, and on, the outh, and continues. The many the new and control of the outh, and continues and control of the outh, and control of the anatom and control of the outh and the outh and the outher of the outh and the outh of the outh of the outh of the outh of the outh. The outh of the outh of the outh of the outh of the outer of the outh of the

The act times to pair two britateries of any air in in those formers. The act to the interest of the act times and the landwise of the act times and the landwise of the act times. The act of the act

beds of enter is Equal laberath and a result between allers, and of the same is a result of an area of the same in the farmer of the same in the same in the farmer of the same in the same in

I. Witchcock eol. J. H. 1. r. 306-309.

^{2. &}quot; 1. p. 311-312.

 ^{7. 1. 1. 2.55, ₹22-309.}





Drainage Basins



2. Orography.

The elevation of the land above sea level vories in Trafton county from 379 feet at the Connecticut River in Lebanon and 358 feet on the Femirewasset liver at Bristol to 5269 feet at the summit of Yount Lafvette. The average elevation of the nonulated portion of the county is about 300 feet while a large part of the forested portions are above 1500 feet. It the county is more or less mountainous, there being some point with an elevation of at least 1500 feet in every town. The mountains can be grouped into fairly definite ranges.

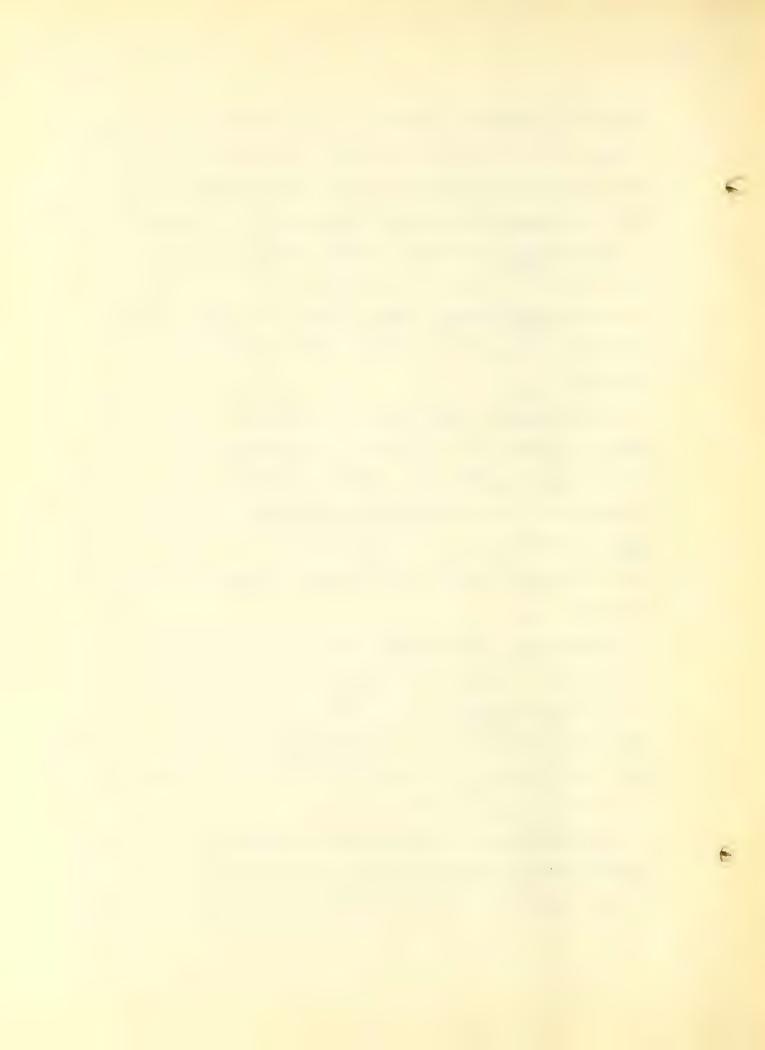
- Hiver and the Lower unionousus iver. This group starts with ount isery (17%) on the boundary line between balton and Littleton and continues with relier Will, heeler Fill, and Tueberry Tountain in Littleton, Rald Will in Lishon, orann Will in Lynan, and Pardner Tountain in Tourse and Lynan. Ill of these peaks are rather low, lardner Tountain, the highest, being only a little over 2500 feet.
- The Landaff, Waston, Lisbon group. This is another group of rather scattered and rather low mountains. It commences with Mount Agassiz (2394) in Rethlehem and includes ugar Hill (1374), Ore Hill, Bronson Will, and Fine Hill in Lisbon, Mole Hill and Cooley Hill in aston, and Cond Will, Green Mountain, woody bedge, and Mobble Will in Landaff.
- 3. The Benton range. This is made up of Mack Suntain, Su ar Loaf, and Hogsback in the town of Benton.
- 4. Isoleted needs near the Connecticut liver. rom lierwort to



lebanon the mountains are souttered and are not arran ed in definite growns or ranges. In this catagory are included Piermont sountain in Piermont, ount list and Sentinal Countain in arran, Subscience of matein (2027) in Orford, Learts Countain in Lyne and Lurchester, and come countain (2027) in Manover.

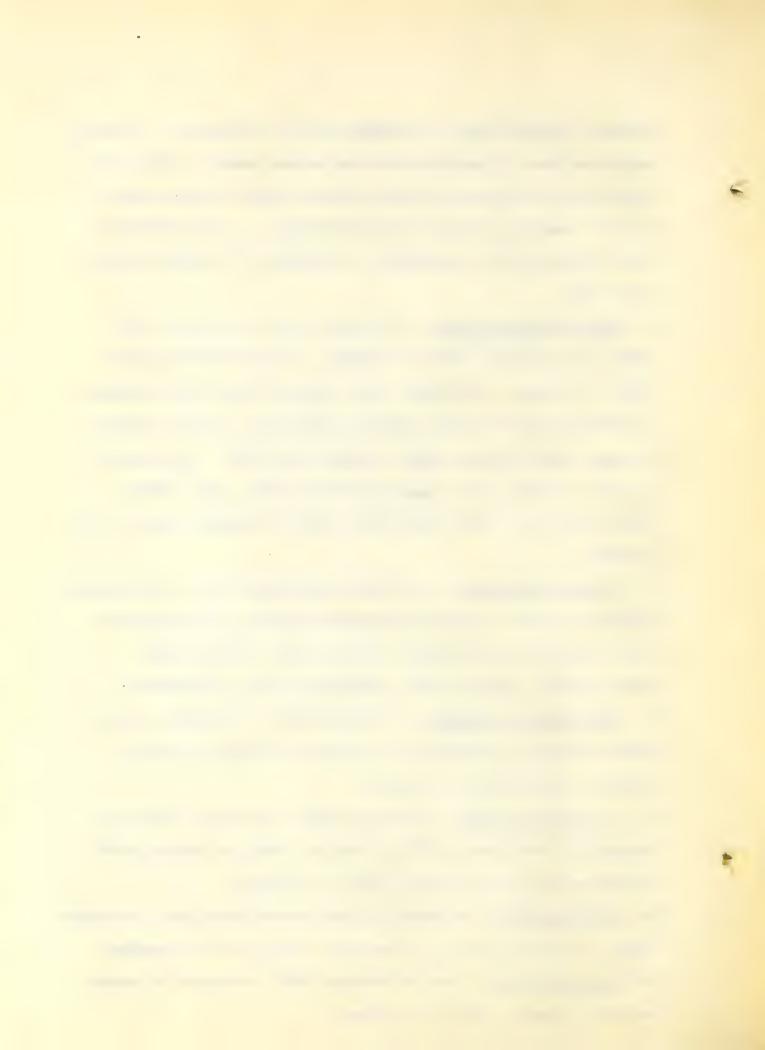
7. Kineman range. This takes in Lannon Countain (4107) in Franconia, Junt Kineman (4377) and Mount Pemirewasset (2516). This range makes up the west side of Franconia Totch and bears the familiar profile of the Old Man of the Mountain on Sount Cannon and Indian Mead on Mount Pemirewasset.

- enton. Its elevation of 4811 makes it the highest neak in the county outside of the Franconia range. Jount Flue (4570) is a northern extention of Toosilauke. To the south the range includes Tount Taternomee and Jount Tushman in Toodstock, Jount Fines and Tlack Hill in Fllaworth, and Jount Terr in Jarren and Entworth. Tount times in Fumney is an offshoot of this range.
- 7. _ardigan ran e. 'ount Cardigan (3200) is a bald rocky beak in Orenge and Alexendria. earty are Faldhead Jountain and Kimball Rill in Groton.
- 9. Franconia range. The Franconia mountains start on the south with Thaleback (3790) and continue with Fig Coolidge (2600) and Little Loolidge (2700), Flume (4340), and Liberty (4472) in Lincoln, and Little



Haystack, Lincoln (5098), and Lafayette (5269) in Franconis. Il these peaks from Flume northward have bare and exposed summits. This is the highest range in the county, Mount Lafavette being the highest peak in the white Mountains outside of the Presidentials. A ridge extends to Mount Garfield (4519), a connecting link between the Franconia and the Twin ranges.

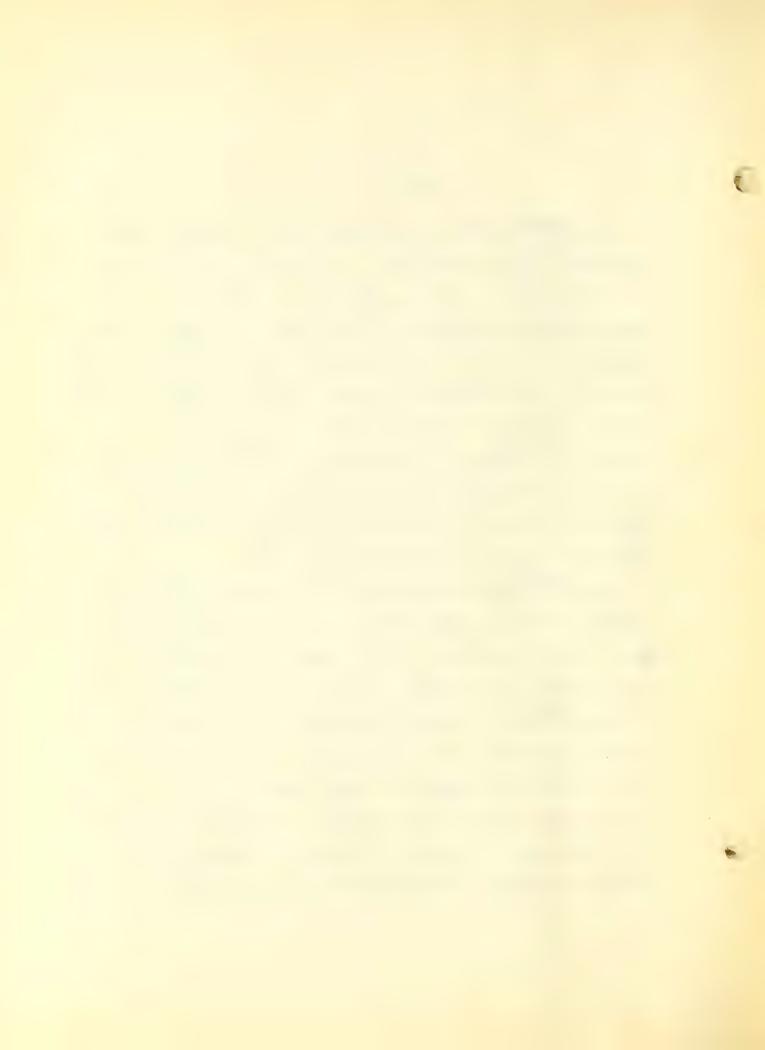
- 10. Twin and Zealand Ranges. This group is made up of North Twin (4783) and South Twin (4922) in Franconia, and Guyot (4589) and Bond (4709) in Livermore. From Mount Guyot, Zealand Ridge extends northeast to Zealand Notch. From this ridge the Little Fiver Mountains continue northward into Bethlehem, ending in Mount Hale (4102). To the east of the Notch and from south to north are Filley (4260), Field (4355), Avalon (3432), Tom (4040), Echo (3000), and the Rosebrook Range, all in Bethlehem.
- 11. Livermore Mountains. The Livermore mountains form a chain extending from east to west in the town of Livermore starting on the east with Mancy (3810) and continuing with Anderson (3725), Lowell (3730), Carrigan (4647), Hancock (4430), Huntington (3730), and Witchcock:
- 12. Thornton Gore Tountains. On the north side of Thornton Gore are Russell Mountain in Moodstock, Loon Mountain in Lincoln, and Black Mountain and Scar Ridge in Livermore.
- 13. <u>"aterville ountains.</u> Retween Waterville and Thornton Gore are Kansamagus (3700), Jaccola (4352), Tecumech (4008), and Fisher (3470) in Vaterville, and Telch Mountain (2788) in Thornton.
- 14. Sandwich Tange. This range includes Sandwich Dome (4071), Tripyramid (4189), 'Witeface (4057), and Passaconaway (4116), all in Taterville.
- 15. Squem Mountains. There are 'estamos (2546) and Morgan in Campton, and Mount Prospect (2072) in Molderness.



CLIMATE

The annual isotherm of 45 passes, according to Huntington, across the southeast portion of the county. To the west the isotherms become lower, the western third of the county having an isotherm of 41. The summits of bount Lafayette and Mount Moosilauke have an annual isotherm estimated to be about 25. The average summer temperature of the greater part of the county is 65 while the winter average varies from 17 in the northwestern portion to 21 on the southeastern portion. Thus the temperature is sufficient in the county to permit the growth of most of the staple crop plants and the growth of forest plants and trees. The occurrence of late and early frosts however often causes damage to the more tender crops such as corn, beans, and squash.

Throughout the year the humidity at 3 A.M. averages about 75. saturated. This high humidity serves to conserve the moisture in the soil by reducing evaporation. The large amount of forested land in the county also has a marked effect upon the climate. The northern part of New Hampshire often has a bumper haverop when the hay is burned and worthloss from drought in the southern portion. This may be explained by the fact that the forests hold whatever precipitation falls upon them and release it gradually but steadily throughout the summer while the cultivated lands to the south are capable of retaining much less moisture and whatever precipitation falls upon it drains off rapidly



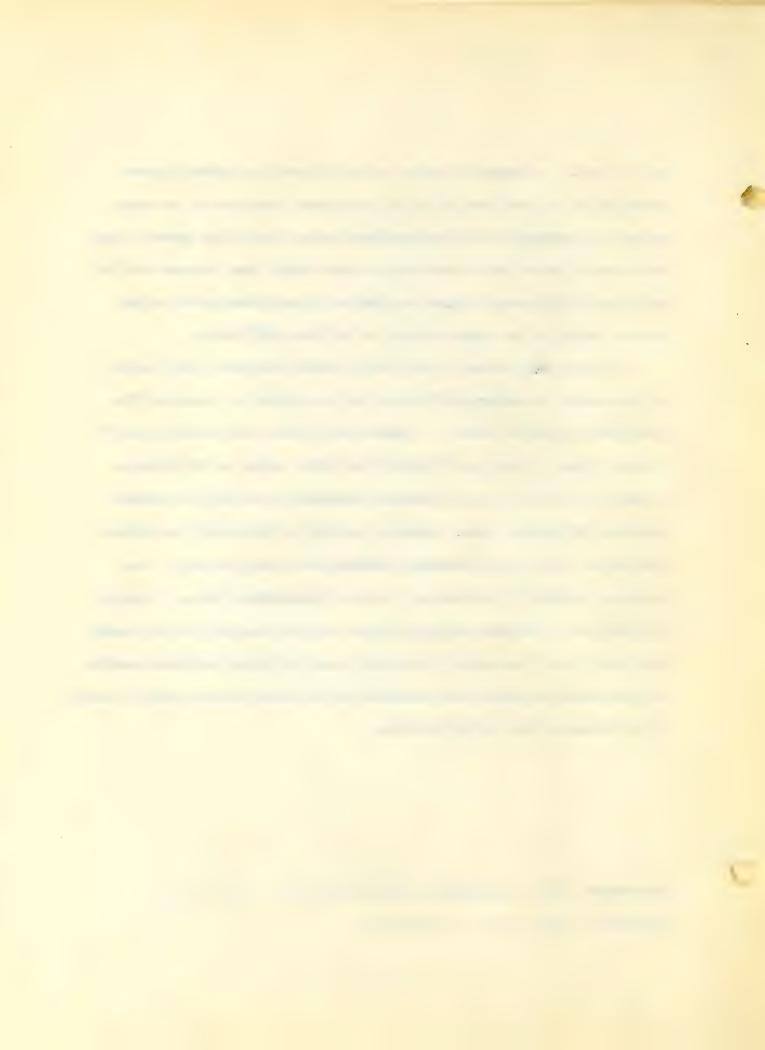
and is lost. The amount of water in the streams was probably much steadier in the past than it is at the present time due to the great amount of lumbering which has been done in the last fifty years. Tany mills run by water power were found in the county then whereas the few mills now being operated have been forced to use steam power as the flow of water in the summer months is far from sufficient.

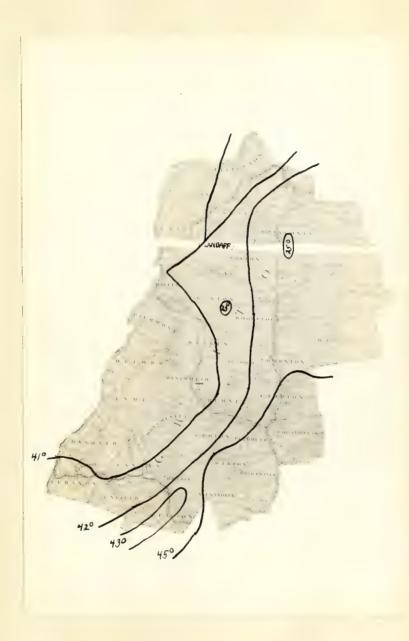
At least forty inches of rain falls during the year in all parts of the county, an amount sufficient for the raising of crops and for the growth of forest trees. A narrow strip along the western edge of Hanover, Lyme, Orford, and Piermont has forty inches as the average.

A second strip just east of this and including about half of Lebanon and most of Hanover, Lyme, Piermont, and half of Waverhill has forty-one inches. The towns bordering Newfound Lake have forty-six, the heaviest rainfall in the state. Parts of Alexandria, Hebron, Plymouth, Ashland, and Holderness have forty four and the remainder of the county has forty two. The amount of rainfall upon the higher mountain summits in the county has never been measured but it seems probable that it would be in excess of that in the valleys.

Chittenden 1905 W.A.Leut.Agr., Bur. Forestry Pul. 55 v.13-14.

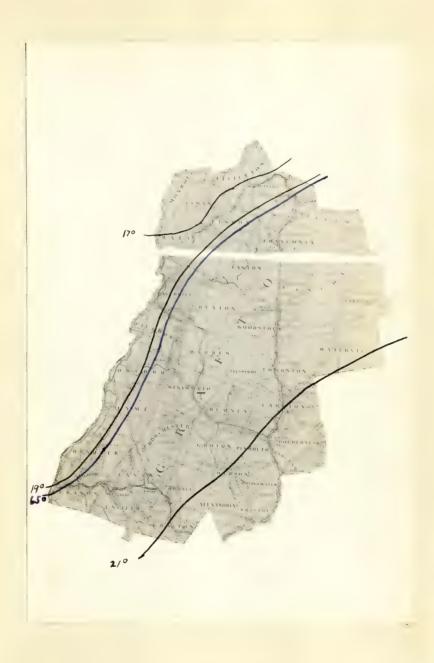
Hitchcock Geol. N.H. 1. p.122-129.





Annual Isotherms

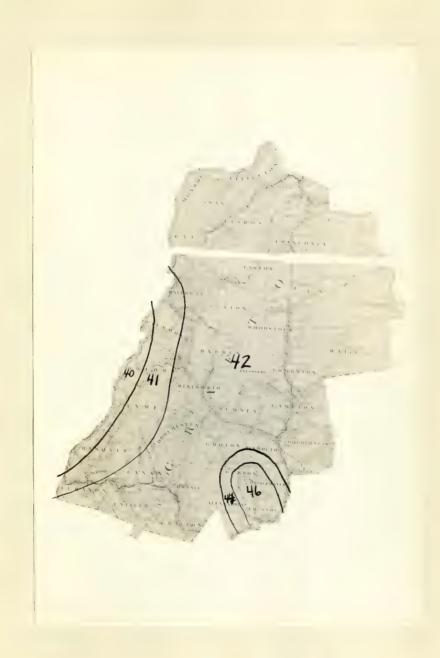




Average Summer Temperature in blue

Average Winter Temperature in black



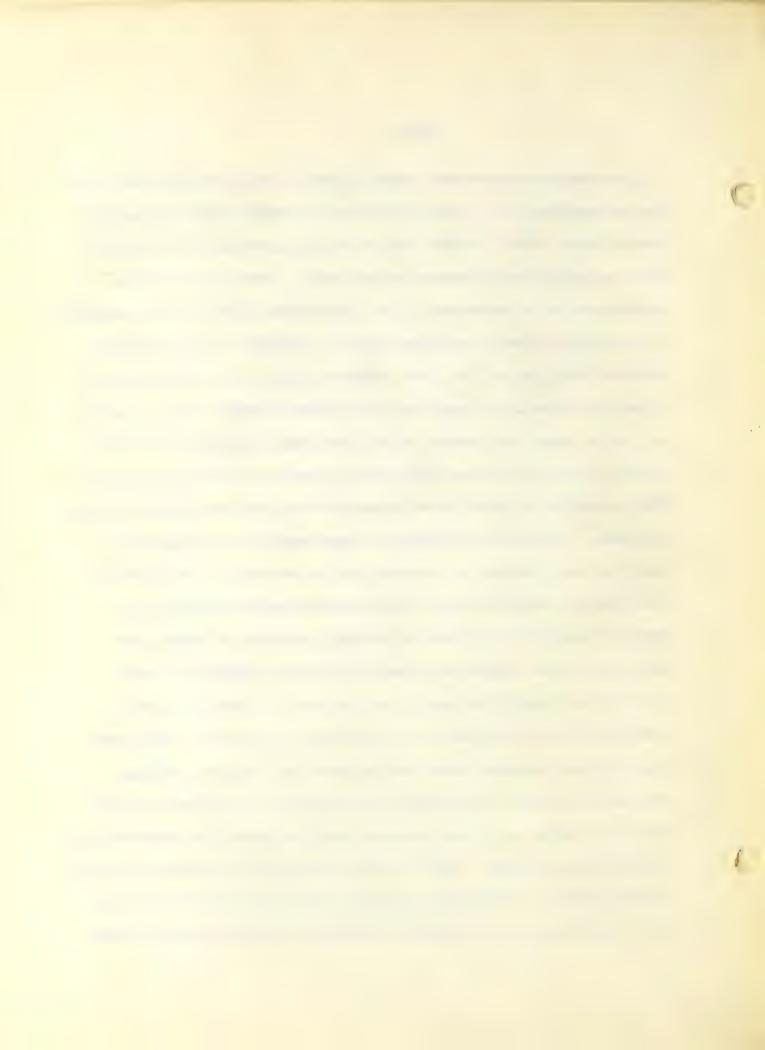


Annual Rainfall



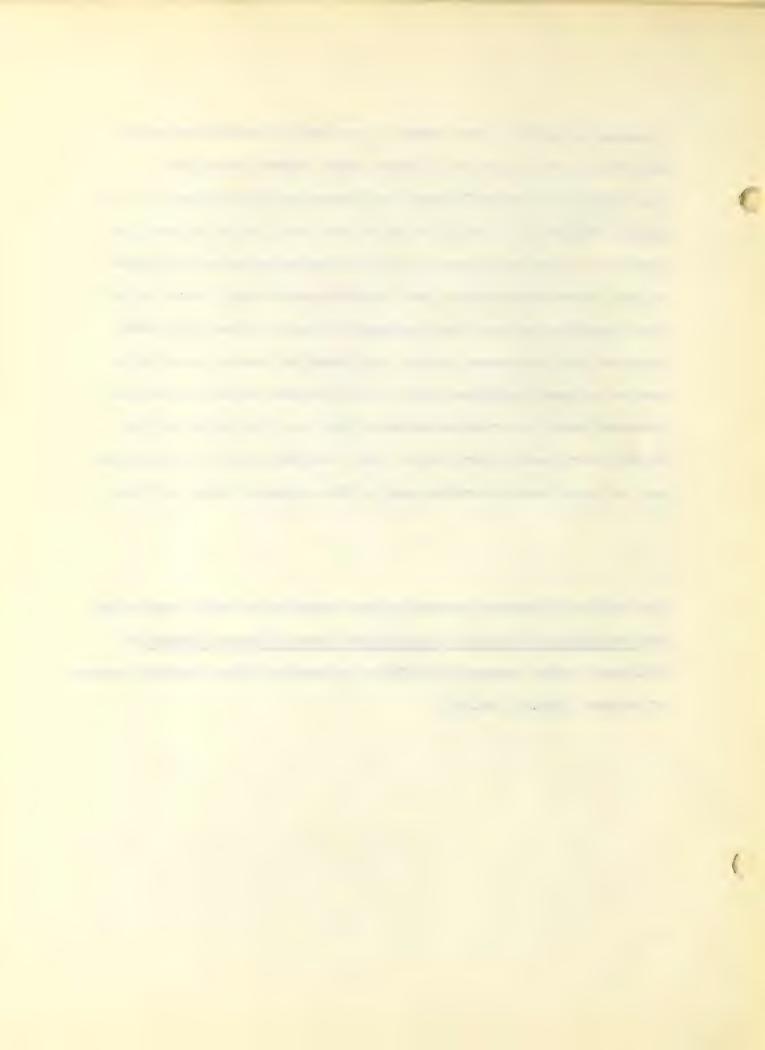
HOTE:

The character of the rock underlying the county is demonstrated soon the accompanying asp. It will be noticed that while the arran exent of the different kinds is rather complex in many places all of the rock is of a composition which produces an acid soil. Hence the plan's from this county may be expected to be of a type which prefer an acid condition. or which will thrive in any kind of soil. "imestone is entirely absent from the county excent for a few scattered snots in the towns along the Connecticut liver, thus very few of the limestone blants may be expected. all of the county was covered by the fleistocene flactation except for a few spate on the Franconia Fidge which reseibly way have been missed. This assumption is based on the presence of two very rare plants on these mountains. Jotentilla Robbinsiana is restricted to the rocks of the samuit of Lount Lincoln and a barren anot at the foot of the cliffs of wount donnoe mear the Lakes of the Clouds on Wount lashington. Its nearest relative is ?. frigida of the high mountains of Europe. One might expect such a plant to spread into areas as favorable or even more favorable nearby but such is not the case. . Nobbinsiana has bean known from Jount 'ashington for nearly a century but it has never been collected anywhere except the one barren and exposed spot, less than an acre in area, at the base of the cliffs of ount orros. This failure to apread and occupy favorable locations nearly is characteristic of relic endezic plants, that is plants which form a last roumant of the ancient flora of a much earlier period. The relatively short time which has elarged since the Meistocene Macistion is not sufficient for such



a species to develop. Teum Feckii is not quite as restricted in its distribution being found in abundance above timber-line on the Presidential and Franconia Ranges but nowhere else in the world. Its nearest relative is G. calthifolium of the Forth Tacific region. The presence of these two plants in the Fhite Mountains makes the student of plant distribution assume that possibly certain small areas in the Fhite Mountains may have been sheltered in some way from the erosive action of the Pleistocene ice and that these two plants were able to survive in these localities while all of the rest of the species were destroyed under the grinding action of the ice. The valleys of the larger rivers have at many points broad intervales with a rich alluvial soil and upon these intervales cost of the propercycle farms are found.

(For further information concerning the character of relic endexics see the <u>Persistence of Plants in Unglaciated Areas of Boreal America</u> by M.L.Fernald which appeared in 1925 in the Memoirs of the Lamerican Academy of Ecience, Vol.XV, No.JII.)



KEY TO MAP OF SOILS

Albany granite

Bethlehem -roup

Modified drift

Clay slate, Cambrian

Quartzite

Kearsage andal scite group

Swift Mater group

Porphyry and diorite

Montalban group

Staurolite mica schist

"orphyritic mica schist

Chicorua group

Lyman group

Franconia breccia

Lisbon group

Conway granite

Bethlehem gneiss

Lake Winnepesauke gneiss

Mica schist with fibrolite





Soil Map



COLLECTED FLORA OF GRAFTON COUNTY, NEW HAMPSHIRE

DIVISION PTERIDOPHYTA

ORDER FILICALES

FAMILY POLYPODIACEAE

PULYPUDIUM (Tourn.) L. Polypody

Polypodium virginianum L. (P. vulgare of Manual, not L.)(11.) Rocks, common.

Holderness	Fernald	1915	** -
Plymouth	Fernald	1915	MT.
	Knowlton	1917	WE.
Hanover	Flint	1874	WE.
Bridgemater	Horner		33.40
Lebanon	Kennedy	1900	U.
	Blanchard, Fernald		
	Hunnewell	1920	Nh.

ALIANTUM (Tourn.) L. Maidenhair

Adiantum pedatum L.	Rich moist woods		
Warren	Williams	1907	G.
Holderness	Gunderson, Lowenstein	1914	W.
Plymouth .	Fernald	1915	NI.
Lebanon	Blanchard, Fernald		
	Hunnewell	1920	177.

^{11.} Fernald 1922 Rhod. 24 p. 125



PTSHILIUM Scop. Brake

Pteridium latiusculum (Desv.) Maxon (Pteris aquilina of Manual (1.)
Thickets and open hillsides.

Holderness

Gunderson, Lowenstein

1914

NE.

WOODWARDIA Sm. Chain Fern

Woodwardia virginica (L.) Sm.

Holderness

Reported by Svenson(£2.), have seen no

specimen.

ASPLENIUM L. Spleenwort

Asplenium Trichomanes L.

Holderness

Svenson

1921

NE.

Hanover

Williams

1910

NE.

ATHYRI'M Roth.

Athyrium angustifolium (Michx.) Milde. (Asplenium angustifolium of Manuel 1.)

Hanover

Hitchcock Reported by Jesup(4.), have

seen no specimen.

Enfield

1839

BS.

Athyrium angustum (Willd.) Presl. (Asplenium Filix-femina of Manual in part. #5.)

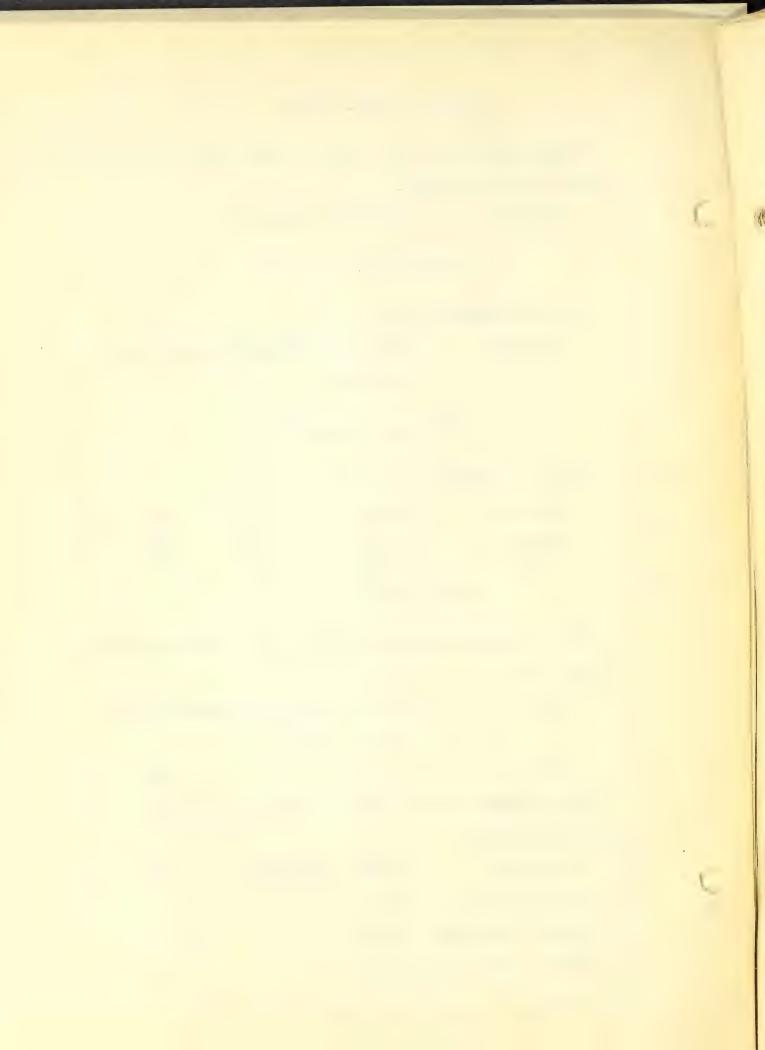
Holderness

Gunderson, Lowenstein

1914

ME.

- 1. Weatherby 1919 Rhod. 21 p.173
- 12. Svenson 1923 Bhod. 25 p.185
- #3. Butters 1917 Rhod. 19 p.178
- 14. Jesup 1891 Flora and Fauna 0.56.



2010

1335

Athyrium angustum (Willd.) Presl., var. elatius Butters (Asplenium Colix-Cemina of Manual, in part. #1)

Bristol Horner 1982 No.

Athyrium angustum (Willd.) Presl., var. rubellum (Gilbert) Butters (Asplenium Felix-femina of Manual, in part. 71.)

Plymouth Knowlton 1915 W.
Lebanon Kennedy 1910 G.

BYH. 1920 T.

Athyrium angustum (Willd.) Fresl., form elegans Butters

(Asplenium Felix-femina of Manual, in part. #1.)

Kennedy

CAMPTOSORUS Link. Walking Leaf

Camptosorus rhizophyllus (L.) Link.

Lebanon

Lebanon Barrows Reported by Jesup ("2.), but have seen no specimens from the county

POLYSTICHUM Roth.

Polystichum acrostichoides (Michx.) Schott. Christmas Wern

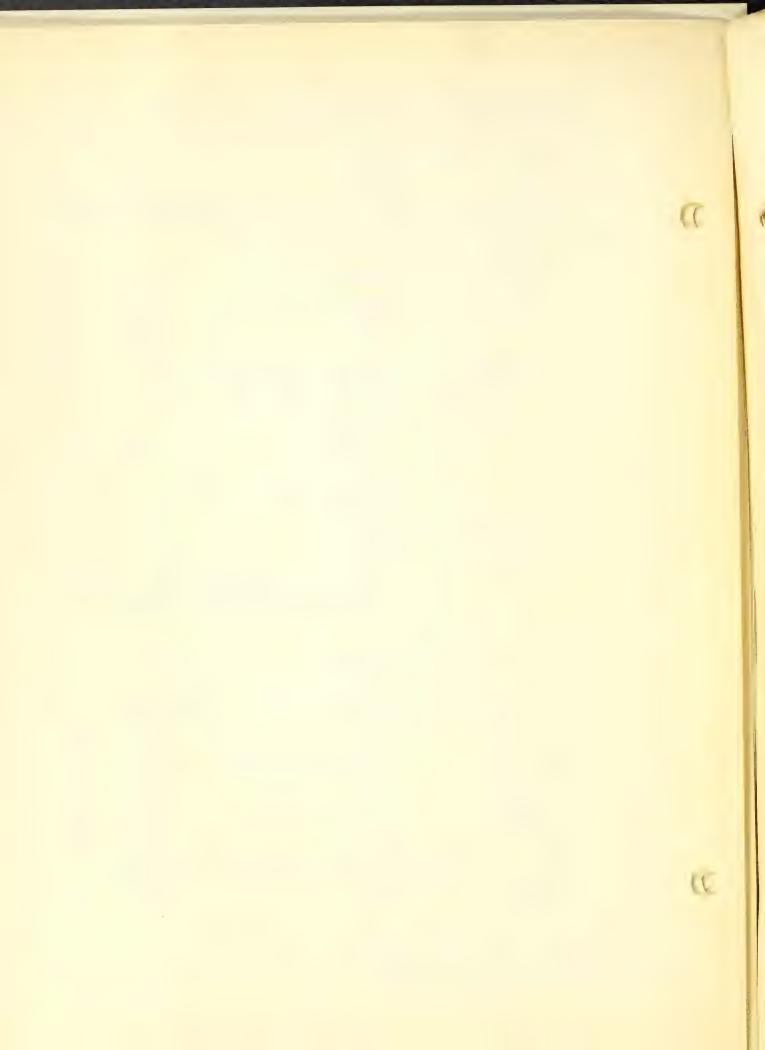
Coodstock	Fernald	1915	ज्ल.
Holderness	Gunderson, Lowenstein	1914	****
Plymouth	Knowlton	1715	TB.
Lebanon	BPH.	1920	ME.

Polystichum acrostichoides (Michx.) Sehott. var. incisum Grav

Orford Rodman 1873 °S.

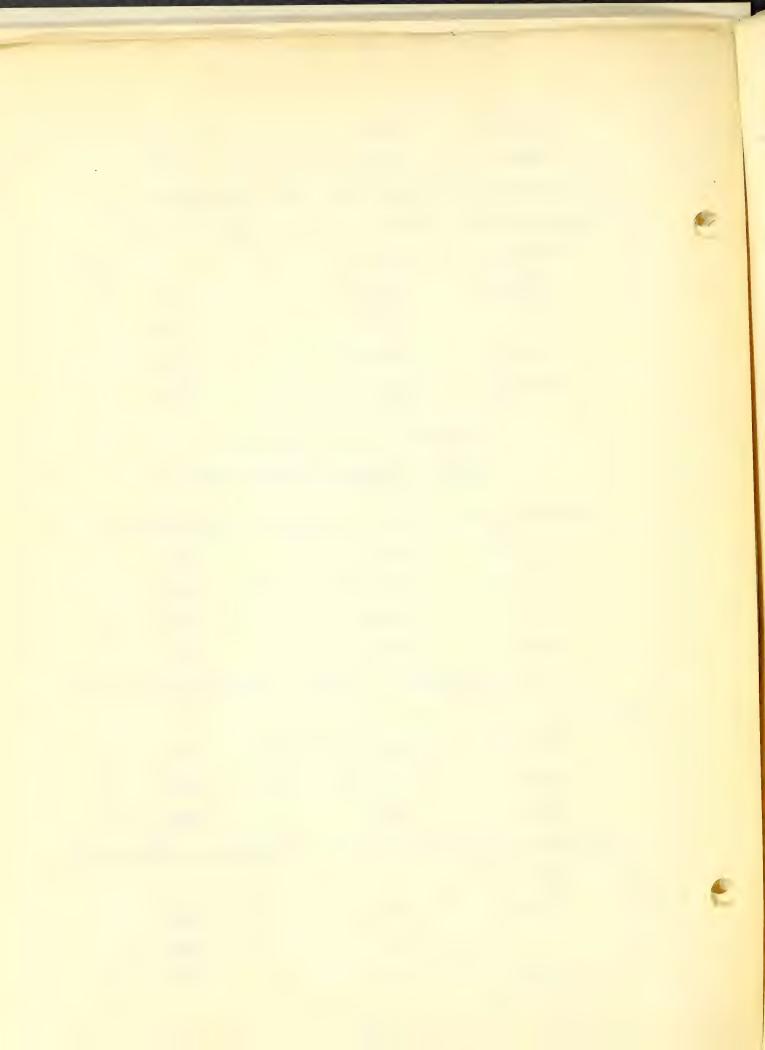
#1. Butters 1917 Rhod. 19 p.178

2. Jesup 1371 Flora and Fauna 0.57.



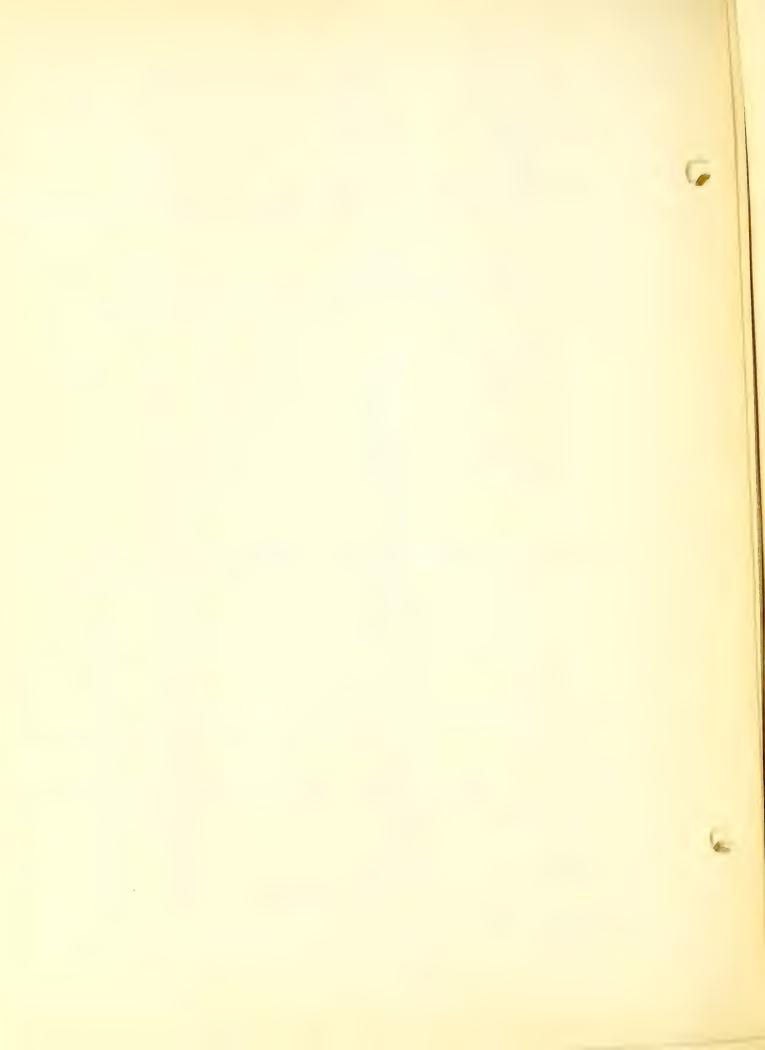
Bristol	Horner	1382	W.			
Lebanon	Kennedy	1835	7.			
Polystichum Bre	unii (Spenner) Fèe., var	. Purshii Pernald				
(Polystichum Brau	(Polystichum Braunii of Manual. 1.) Braun's Holly ern					
Bothlehom	Titus		107 .			
Franconia	Pobinson	1905	111.			
	Faxon	1 387	5 .			
Lincoln	Fernald	1915	WF.			
Watervill	e Lane	1379	7.			
	num venns ve ostalis ot	told Form				
	THELYPTE'IS Schmidel. Sh					
	Aspidium of Manual; Dryop	teris adams. 1.)				
Thelypteris pa	lustris Schmidel. (Aspidi	um Thelypteris of	Manual. "1.)			
Bethlehem	Taylor	1898	NE.			
Wentworth	Williams	1908	G.			
Plymouth	Knowlton	1915	NE.			
Lebanon	Kennedy	1390	G.			
Thelypteris no	veboracensis (L.) Nieuwl.	(Asmidium noveb	oracense of			
Manual. #1.)						
Noldernes	s Gunderson, Lowe	enstein 1914	NT.			
Plymouth	Knowlton	1917	NE.			
Lebanon	Kennedy	1890	G.			
Thelypteris Ph	egopteris (L.) Slosson.	(Phegopteris poly	ioides of			
Manual. (1.)						
Sethlehem	Collins	1889	G.			
	Taylor	1898	· Fire			
Franconia	Collins	1339	N. C.			

#1. Weatherby 1919 Rhod. 21 p.173



	Materville	Cishman	1-17	R.S.
	Holderness	Lowenstein	1914	·F.
	Plymouth	Enowlton	1715	K****
	Lebanon	NPH.	1920	
The	lypteris hexagonon	tera ('ichx.) eatherby. (The	eronteris !	hexagonoptera
o" Man	ual. "1.)			
	Holderness	Svenson	1921	"E.
The	lvoterie Eryopteri	s (L.) Slosson (Phegopteris	rypoteris	of
Manual	. 1.)			
	Bethlehem	Collins	1391	WE.
	Naterville	Cushman	1912	B.
	Farren	Tilliams	1997	^ •
	Holderness	Svenson	1921	w.
	Lebanon	Ponse	1900	· F.
		EFH.	1920	ery •
The	lypteris marginali	e (L.) Wieuwl. (Aspidium mar)	finale of	anual. 1.)
	Franconia	Kennedy	1910	• 6
	arren	illiams	1908	7 10
	Holderness	Hope	1910	ME.
	Plysouth	Knowlton	1915	% * •
The	lypteris Foldiana	(Nook.) Nieuwl. (Aspidium So.	ldianum of	Manual. (1.)
	Hanover	Flint	1874	BS.
The	lypteris cristata	(L.) Nieuwl. (Aspidium crist	atum of Ma	nual. 1.)
	Bethlehem	Collins	1839	NE.
	arren	Knowlton	1919	TO.
	Holderness	Sunderson, Lowenstein	1914	• . •

[&]quot;1. Weatherby 1919 Phod. 21 p.173



Lebenon Kennedy 1290 G. Fernald, Hunnewell 1920 Thelypteris cristeta (L.) Nieuwl., var. (lintoniena (L.O. Daton) Weatherby (Aspidium cristatum, var. Clintonianum of Manual, "1.) Franconia Faxon 1896 775. Hanover Mitchcock Reported by Jesup ("2.), no specimen seen Thelypteris Roottii (Tuckerm.) Nieuwl. (epidium Boottii of Vanual. 1.) Hanover Williams 1910 "E. Thelypteris spinulosa (D.F.Müller) Nieuwl. (Aspidium spinulosum of Manual. 1.) Hanover Eddy BS. Lebanon Kennedy 1 390 7. BPH. 1920 TE. Thelypteris spinulosa (O.F.Müller) Nieuwl., var. intermedia (Muhl.) eatherby. (aspidi m spinulosum, var. intermedium of Manual. 1.) Franconia Robinson 1905 18. "aterville Fuller 1897 *** Warren 1111iams 1908 7. Holderness Gunderson, Lowenstein 1914 . H. Plymouth Knowlton 1915 TF. Hanover Stewart 1973 7. Lebanon Kennedy 1390 G.

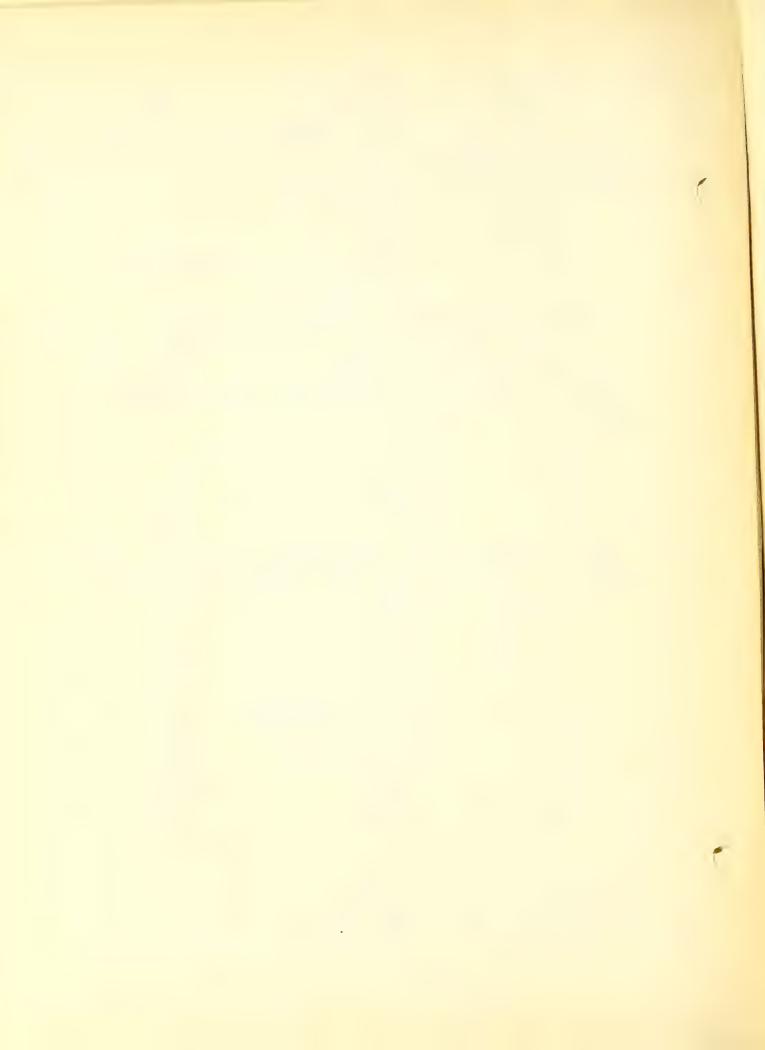
BFH.

1727

110

^{1.} Weatherby 1919 Rhod. 21 p.173

^{2.} Jesup 1391 Flora and Fauna p.57.



Thelypteris spinulosa (O.F. Wüller) Wieuwl., var. americana (Wisch.)

Seatherby. (Aspidium spinulosum, var. americanum Fisch. 1.)

Bethlehem Grant 1295 ME.

Fernald 1915 TE.

Warren illiams 1998 WE.

Thelypteris cristata, war. Clintoniana T. T. spin closa, var. intermedia

Franconia Faxon 1376 3.

CONTORT RIS Bernh. Bladder Fern

Cystopteris fragilis (L.) Bernh.

Holderness Gunderson, Lowenstein 1914 NT.

Plymouth Fernald 1915 NT.

Lebanon BFH. 1920 NV.

"D. D. IA F. Br.

Coodsia ilvensis (L.) R.Br.

Flymouth Fernald 1715 1.

Hanover Edmondson 1773 3.

Lebanon Kennedy 1327 7.

Lease 1775 Tr.

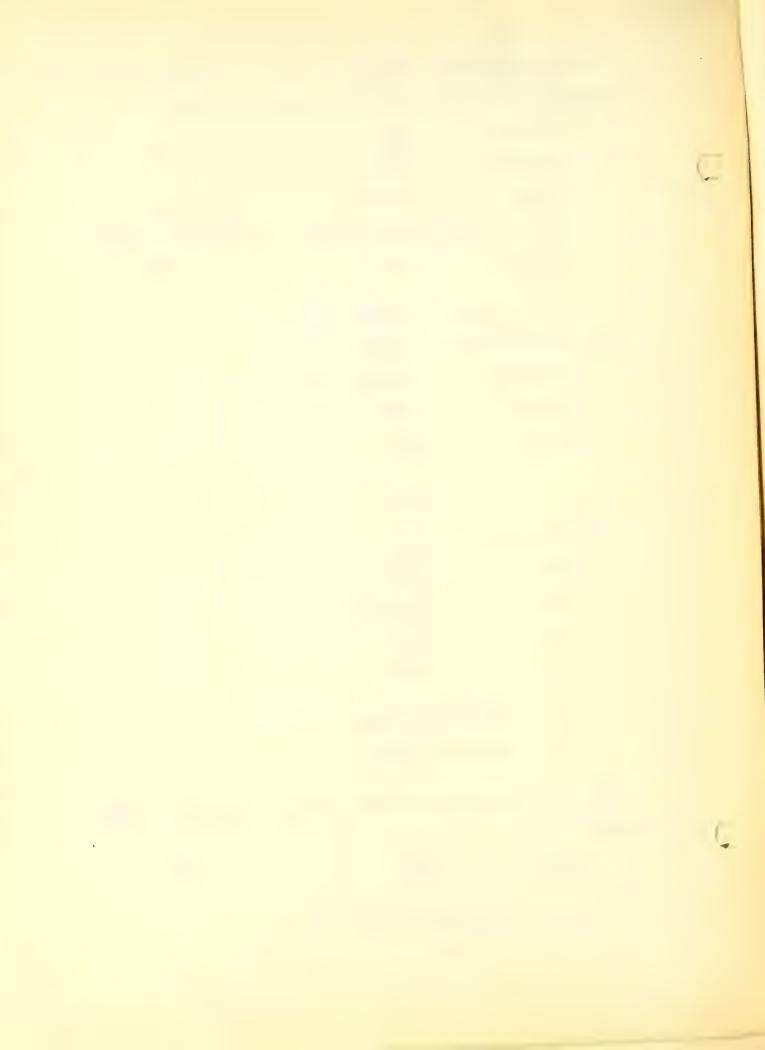
DUWET FITTA Bernh.

(Licksonia of Manual. 11.)

Lennstaedtia punctilobula (Michx.) Moore. (licksonia punctilobula of Manual. 1.)

Bethlehem Taylor 1898 Wr.

1. Teatherby 1919 Thod. 21 p.173



Waterville	Cushman	1712	יום.
arren	%illiams	1707	175
Holderness	Sanderson, Lowenstein	1914	NW.
Flymouth	"nowl ton	3 352	215
Lebanon	Kennedv	1937	7
	Jipn.	1920	.

J'Silia L.

Onoclea sensibilis b. Jensitive Fern

arren	lilliens	1933	
Holderness	Sunderson, Lowenstein	1,714	, - · · · ·

Onoclea sensibilis L., form obtueilobata (Echkuhr.) Gilbert (Var. obtusilobata of Janual)

Rethlehou	Collins		1991	3 545	
Holdernees	Gunderson.	Lowenstein	1,314	7177	

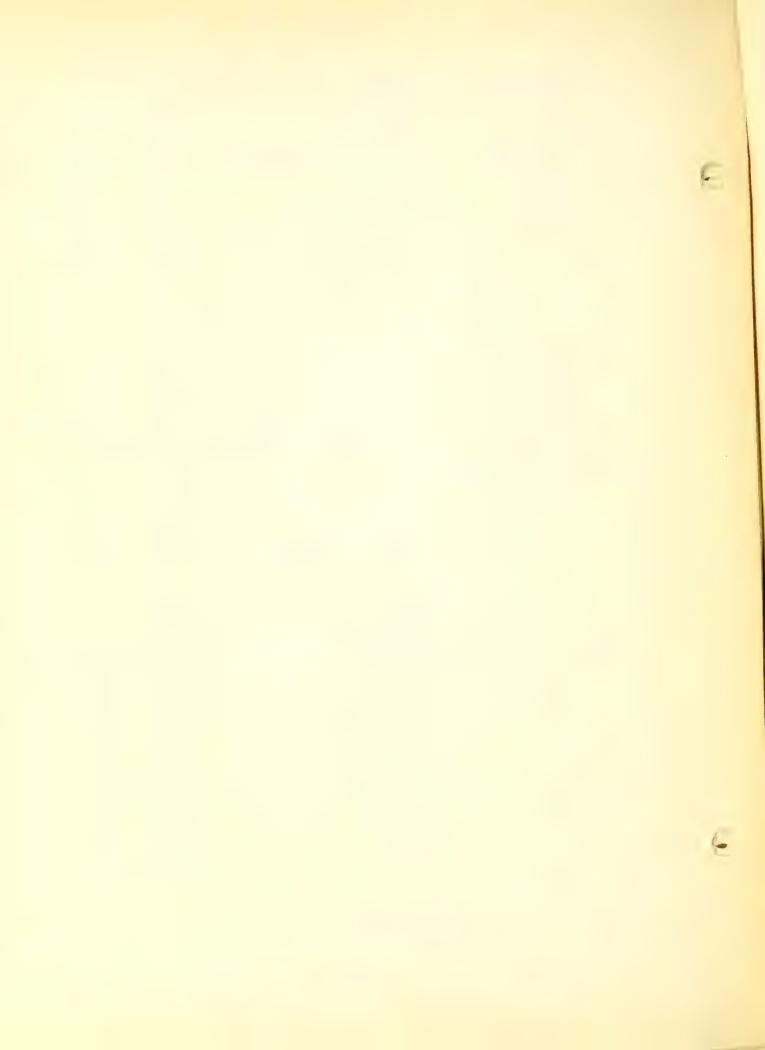
PTEPETIS Raf.

(Onoclea section Struthiopteris of Manual. #1.)

Pteretie modulosa (michx.) Nieuwl. (Unoclea Struthiopteris of Manual. "1.)

Rethlehem	Tavlor	1898	YE.
arren	illians	1907	W.
Plymouth	! ernald	1/15	11.
Bristol	W1ch	1893	WE.
Lebanon	Pease	1900	WT.
	ara.	1920	• ***

1. Weatherby 1919 Rhod. 21 p.173



FAMILY OSMUNDAC AE

O ATTILA (Tourn.) L. Flowering Fern

Jenu	nda rejali	is L., var	. spectabilia	("illd.)	Gray.	(.nmunda regali	i 6
of Janu	al. 1.)	Royal Fe	rn				

Bethlehen	Taylor	1378	N.E.
Lebenon	Pernald, Hunnewell	1929	W
Osmunda (la tomiana h.	Interrunted Fern		
Holdernese	Gunderson, lowenstein	1 21 4	71.
Lebanon	Fernald, Hunnevell	1222	771.
Demunda cirramomea L.	(innamon lerm		
Lebanon	Yennedy	1887	WF.
	Formeld, Funnewell	1920	•
Osmanda cinnamomea L.,	var. frondosa Fray		
Holderness	Gunderson, Lowenstein	1914	WE.
Osmunda cinnasones b.,	var. incise J Muntington		
Holderness	Gunderson, Lowenstein	1914	TE.

PAMILY OPHIOGLOSSACIAL

UPTIVALOG A. (Tourn.) '. Mider's Tongue

Unhioglossun vulget m 1.

Holderness	Gunderson, Lowe	enstein	1,71 .	4 10 10 10
Lebanon	atail.		1929	······································

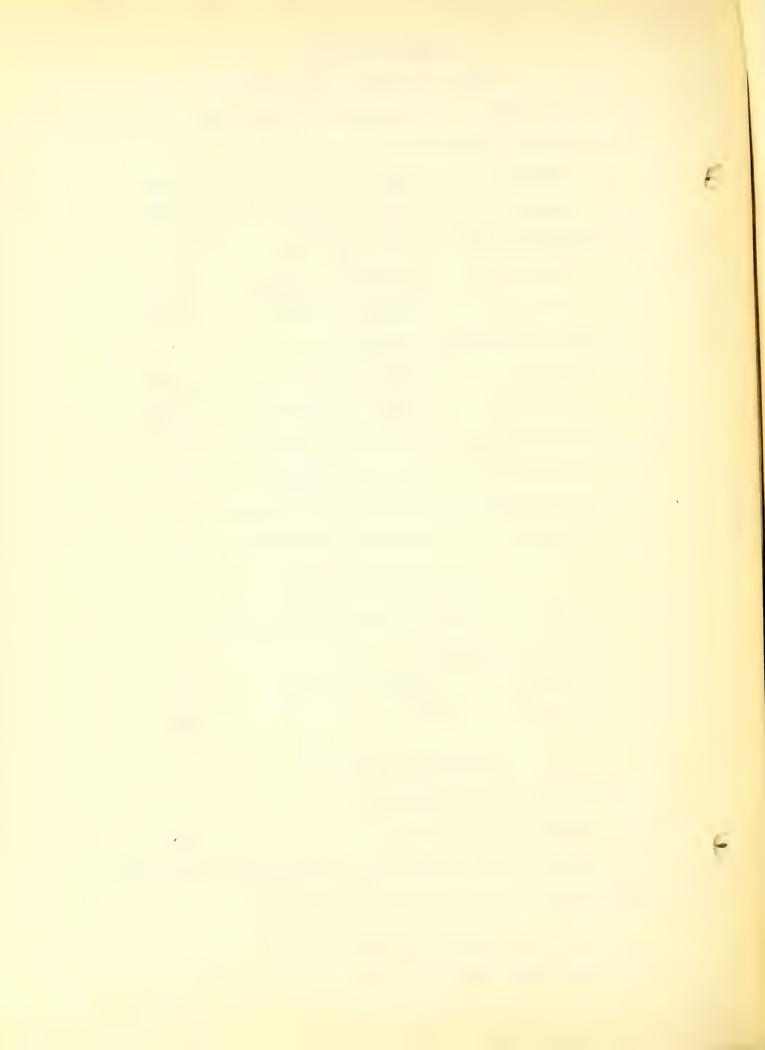
TOTPYCHI'M Sw. Moonwort

Betrychium simplex L. Hitchcock

Lishon Faxon 1387 T.

Botrychium angustisegmentum (Pease & Moore) Ferneld (Tetrychium lanceolatum, ver. angustisegmentum of Lanual. 2.)

- 11. Fernald 1930 Rhod. 32 p. 71-76.
- *2. Fernald 1915 Phod. 17 p.37



Francocia	"ewon	1 23.2	7.	
aset see	Formald	1015,1017	ïe.,	٥.
an mer	Villiano	7217	uh a	
Labanon	PMM.	1 120	dë.	
Hotrychium imite	eriaefolism (Noth.) schere	(Sotrychian	ramosum	of'
merican enthurs. 1	.)			

Tethlehem Taylor 133: 1 1. Mann, Faxon ranconia Faxon 1837,1997 7. Toodehook Formald 1915 11. Holderness Gunderson, Lowenstein 1 714 . . .

Botrychium dissectum Epreng. (Fotrychium obliguum, var. dissectum of Manual. #2.)

"othlehen	Taylor		1378	** **.
Holdernoss	Gunderson,	Lowenstein	1727	
notrychium tornatum	(Thunh.) W.,	var. intermedium	i at	on
erren	Williams		2007	41 °
Holderness	Gunderson,	Lowenstein	191	* *** * •
Sotrychium virginis	nam (I.) (w.			
De'hle'em	Colline		13)1	TI.
holderness	Hunderson,	Lorenstein	3.324	***
Wanover	Lorell			•
Lebanan	Kannedy	188	5,1990	٥.
	TVH.		1000	2° 7 5 - 10

- 1. schinz 1916 Vierteljahresschrift Maturf, Mesell. 61 p.416.
- 2. Pernald 1921 Thod. 23 p.151



JAC'E THICK ATT.

FALLY THEFALL

TIERLE (lourn.) L. Torsetsile

luisetum arvense L.			
aterville	Cushman	191.	10.
Farren	"illiems	19 //	F.
ion wer	illiams	1-120	
aniestum protence	hrh.		
Letanon	and.	1000	
·: leetum eylvaticum	t., var. paudirament lilde.	() ·	
Polderness	Sunderson, Commetein	1 /14.	1 8

Formalá. (2.)

3.75

Nanove?	voore	1)	
Laherm	APPE.	1977	15.

Taulsetan litorale Whierein

Randver ...ore

1/多學學》。2位	-3 o		673	
Tileetum lisseum l.	(missim	A referrice of W	omial. (1.)	
flymo ita	inswiton		1 40	

entworth filliams 3000 II.

Louisetim limpsum L., form verticillat m bell .;

ethletem	Flint		0.
Lebenon	Loveland	1 . 3	0.

- 1. 'errald 1 1! ... 'D p.1/1
 - 2. Formald Weatherby 1831 and 2 p. 7



Equiretum hvenale L., var. affine (Angelm.) A.A.laton

Hanover	Dilliams	1010	Æ.
Lebanon	Aganedy	1320	n.
	Ternald, Humnewall	1000	ii.

fo is a relegatum Schleich.

Sanover	Deported by Jenus (1.), have som to
	epecimen from the county.

Foursetum scirosides Micha.

Holderness	venson	7 221	NT.
Flymouth	Knowlton	1 71 5	2
Hanover	illiems	1919	

OTIDES LYCUTOLIALIS

TA ILY LYDOPOLIANIA

LW MODIFIE. Club Moss

Lycomodium Telago L.

granconi a	Tuckerman	J . J. 1.	•
	² obinson	1874	HE.
	Fernald, Smiley	1915	NE.
Liverzore	Pease	1.1=	111.
Lyconodium Felago L.	, var. appressum Lesv.		
Francouia	Fernald, Smiley	1915	NE.
Lycopodium lacidulum	dichx.		
Bethlehem	Collins	1331	1000
Lincoln	Triggs	1.15	•
Toodstock	Fernald	1015	.4

1. Jesup 1391 Fauna and Flore p. 56.



Holderness	Fernald	1915	?1度。
Wanover	Flint	1 27/	. "
Lebanon	T . M.	1020	**** *
Lycorodi m immdatum I	4.		
Franconia	Faxon, Filler	1390	g = 1
" a ata o स्टेन	illiams	lous	24 12
"Lympath	Peparted by Test w(11.), a	so proclaen	seen.
Darchester	Jessup, sarrent	1372	and de
Canaan	Tinelor	1712	म् म्
Harover	reported by Jestin (1.),	no specime	n seen.
Lyconodica annotinum L			
Kanover	Flint	\$ 15 x \$	17.
Enfield (2.)	Xennedy	1,777	÷.
North 1	5 n.A	1727	177
Lycomodium a motinum I	., var. almestre Tanta. (12	.)	
Prenconta	fernald	1715	***
Lycopodium annotimum L	., ver. acrifolium Fernald ((2.)	
"obdetock	Fernald	1915	1 •
Holderness	Surderson, Lowenstein	1914	48.20 ·
Brids eve ter	Howe	1305	PS.
Everrodium annotinum l	., var. pungens leev.		
Franconia	Pobinson	1374	HE.
	Ternald, Jackson, Lailey	191=	>1 <u>7</u> •
Lycorodium clavatum L.			
Franconia	Fernald	1015	
oodstock	Fernald	1915	HE.

^{1.} Jestup Fauna and Flora 1391 p.58.

^{2.} Pernald 1915 Phod. 17 p.124



Holderness	Ternald	1 11 =	MT.
rid, exater	Cowe	3 > 11	26.
(voonodium clavatum L.	, vor. Legaltachyon Ternal	1 ° ".ssell	(1.)
pudetack	Fernald	1917	TE.
Beston.	11111906	1909	, ~
Lycopodium obscurum L.			
105611.2015	Ternald	191	W1 T1
Lebanon	Kennady	1900	•
	rin.	1920	*13.
Lycopo im obscuram L.	, var. dendroideum (Michx.) D.C. Cator	7
noldernes.	Sunderson, Lowenstein	1914	118.
Lyconolium a bimefoli	um villo.		
Tolderess	Tamorall, artaran	1:1	.41.0
Woo wine complements	L.		
Bentun	Tower	3.7.27	7.
Lycoponium complanatum	L., var. flabelliforme Te	rnald	
aterville	Cushman	1912	PS.
Holderness	Fernald	1915	WE.
Flynouth	Fnowlton	1715	W.
Lebanon	<u> च</u> ्चाहर .	1923	7.
Lyconodium tristachwan	a Pursh.		
iochetock	Fernald	1915	TE.
sterville	Cushman	1712	6
.nfield	Forr	1,7)	١.
	Ivenodium slavatum L. obdatoca Beaton Lycopolium obscurum L. loodatoca bebanon Lycopolium obscurum L. noldernes. Lycopolium obscurum L. noldernes. Lycopolium obscurum L. sebanon Lycopolium obscurum L. senton Lycopolium complenatum lycopolium complenatum laterville Holdernese Flynouth Lebanon Lycopolium tristachuum loodatock loodatock loterville	Ivernadium slavatus L., ver. Legastachym Ternald Dector Ternald Dector Tillians Lycopodium obscurum L. Doddilok Ternald Lebanon Kennado HT. Lycopodium obscurum L., ver. dendroideum (Michx. Holderness Junderson, Lowenstein Lycopodium obscurum L. Tower Lowersdium complematum L. Benton Tower Lycopodium complematum L., ver. flabelliforms Ternald Flymouth Fornald Flymouth Fornald Lycomodium tristachyum Pursit. Lycomodium tristachyum Pursit.	Internation Nowe Internation Interna

^{1.} Fernald 1910 shod. 12 p.57



'A ILY : LATTELL OF .

.elaginella runestris (1.) pring.

Holderne	ess funderson, Lowenstein	1314	77.
	venson	1001	10.
febron	Fease	1 30%	τ,
Hetanon	Cense	1771	TT.
celaginella	anoda (fi.) horing (anse of Jeni	ual la)	
Tanover	illiane	1919	-

TRICK I DEWINE

ISUNTE L. Guillwort

Issetes echinospora Dur., var. Braunii (Dur.) weelm.

Franconia	m.Poott	1365,1365	**,,°,
	Faxon	19)1	T.
	Fernald, amilev	1 21%	
Molderness	Hundersen, Lawenstein	1 114	1.
Hanover	enorted by Jesun(2.), no	arecimen seen.	
Canaan	neported by Jesun(2.), no	e ecimen seen.	
Ispetes riparia	'ngelm., var. canadensis opelm.	(I. Ludgei of	
		(anual [3.)	
Hanover	illiams	1010	·

- 1. Fernald 1915 Phod. 17 p.68.
- 2. Jesup 1991 Fauna and Flora p. 58.
- 3. Pfeiffer 1922 Annals Mo. Bot. Gard. 9 p.184.



DIVISION SPERMATOPHYTA

SUBI IVI. ION GYMNOL PEFMAE

JRDER CONIFERALES

FARILY TAYACEAE

TAXUS (Tourn.) L. Yew

Tames	canadensi	ls Marsh.	round	Hemlock
LEALD	Causidens.	LO MELLOILA	JULIU I	" CHILDER

Woodstock	Fernald	1915	W.
Holderness	Botany 7	1915	NE.
Lebanon	Kennedy	1890	n.
	Fernald, Hunnewell, "oods	1920	ALE:

FAMILY PINACEAE

PI WS (Tourn.) L. Pine

Pinus Strobus L. Thite Pine

Holderness	Botany 7	1915	750
Pinus Benksiana Lamb.	Northern Scrub Pine		
Thornton	Fuller	1397	NE.
	Wheeler	1913	5 · ·

An extreme southern station for this species; it is also found along the shore of Lake Umbagog in COOS County. (#1.) (#2.)

Pinus resinosa Ait. Red Pine

Franconia	Faxon	1892,1893	X*************************************
roodstock	Fernald	1915	NE.
Farren	"illiams	1903	NE.
Holderness	Gundersen, Lowenstein	1914	
Plymouth	Fernald	1915	ile.

- 1. Pease 1924 Proc. Boston Loc. Nat. Hist. 57, 3,,p.147
 - 2. Pychoweka 1891 Bul.Tor.Bot.Club 18 p.150



Pinus sylvestris L. . cotch Pine

Reported by Jesup (*1.) to be naturalized at Hanover; have seen no specimens

LARIX (Tourn.) Adams. Larch

Larix laricina (LuSoi) Koch. Tamarack, Hackmatack, or American Larch

Lebanon Faton, E. T.

19'3

13.50

This tree may have been set out.

Larix Cesidua Mill. Turopean Larch

Feported by Jesus (1.) to be naturalized at Hanover; have seen no specimens from the county.

PICEA Link. price

Picea canadensis (ill.) B.P. White Enruce

Franconia Fuller 1990 W.

Holderness Botany 7

Picea rubra (DuRoi) Dietr. Red Spruce

Holderness Botany 7 1915 NE.

Picea mariana (Mill.) BSF. Black or Bog Foruce

Franconia Fuller 1390

Faxon 1897 3.

Pernald, Jackson, Emiley 1915 WE.

Taterville Robinson 1894 7.

TIUGA (Endl.) Carr. Hemlock

Tsuga canadensis (L.) Carr.

Warren Williams 1908

1. Jesup 1891 Flora and Fauna p.41.



ABIES (Tourn.) Hill. 'ir

Abies balsamea (L.) Mill. Pir Balsam

Franconia Fernald, Imiley 1915 W.
Holderness Junderson, Lowenstein 1914 WF.

INDA L. arbor "itae

Thuja occidentalis L.

Fernald 1917 . Fickard 1946 .

JULIET JE (Tourn.) L. Juniper

Juniperus communis L., var. depressa Purch.

Voodstock Fernald 1915 W.

Femorted by Jesup (1.) from Hansver, Orford, and Enfield but no specimens seen. The natives of Woodstock say that Juniper was introduced there because of the demand for the berries to flavor gin.

Juniperus Virginiana L.

Reported by Jesup (1.) from Handver, but no specimen seen from the county.

DIBDIVISION ANGIOLPER (AE

CLASE WORDCOTT LONEAR

OFDER PANDANALES

PAHILY SPARGANI . FAE

_PARGANIUM (Tourn.) L. Bur-Reeds

Sparganium chlorocarpum Rydb. (f. diversifolium of Manual. (2.)

Franconia Williams 1894 .
Hanover Williams 1910 W.

- 1. Jesup 1891 Flora and Fauna p .41.
- 2. Fernald 1922 Fhod. 24 p.:3.



```
par anium chlorocarpum Nydb., var. acaile(Reeby) Fernald.
(1. diversifolium of manual, var. acaule (Leeby) Ternald & Lames. 1.)
                                                              3 -
                        Faxon
                                                     1890
      Franconia
                                                     1390
                                                              3.
                         Kennedy
       Lebanon
  parganium angustifolium tichx. (Includes S. simplex of Wanuel. 2.)
       Bethlehem .
                        Faxon
                                                     1879
                                                               7.
                                                              17
                                                     1912
       Franconia
                        St. John
                        Kennedy
                                                     1391
                                                               .
       Lincoln
      Rentworth illiams
                                                     1908
                                                              17
   Sparganium minimum Fries.
                                                     1921
                                                               NE.
       Holderness
                         Evenson
                      MUR TAJAL II.
                     FAHLY dad a solaE
                POTAMOTERO (Tourn.) L. Pondweed
  Potemoreton netens L.
       Lincoln
                         Faxon
                                                    1835
                                                              744
       Lebanin
                       Yennedy
                                                    1321
                                                              9.
   Potamoreton enihydrus Baf.
                                                     1399
                                                              1717
                         Faxon
       Lincoln
                                                     1910
                                                              1777
                          Williams
       Banover
        Enfield
                          Kennedy
                                                     1390
                                                              13.
                                                     1890
                                                              G.
       Lebanon
                          Kennedy
   Potamogeton microstachys Wolfg. (7. alpinus of Manual. 3.)
       Hansver
                          "illiams
                                                     1910
                                                              3.
1. Fernald 1922 Bhod. 24 p.29.
12. Fernald 1925 Rhod. 27 p.190.
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.3. Fernald 1930 Thod. 32 p.76.



Potamogeton emplifolius Tuckerm.

Holderness Hope 1910

Potamoreton heterophyllus Schreb., forma graminifolius (Fries.) Morons.

Lisbon Faxon 1397 3.

Potamoreton heterophyllus Schreb., forma maximus Morong.

Hanover Jesup 1876 G.

Potamogeton prealongus bulf.

Lisbon Faxon 1337

Potamogeton bupleuroides Ternald.

Holderness Penorted by Svenson ("1.), no specimen seen.

Henover 1340 T.

Williams 1910 G.

Potamogeton zosterifolius ichumacher.

Fenorted by Jesus from infield (2.), but no specimen seen from county.

Potamogeton confervoides Beichenb.

Fethlehen Faxon 1879 N.,G.

Lincoln Faxon 1879,1385 N.,G.

Kennedy 1391 G.

In extremely rare species found only in a few isolated colonies from the lew Jersey Pine Barrens to the plateau of western Newfoundland in localities which were probably not glaciated by the Pleistocene ice. (13.)

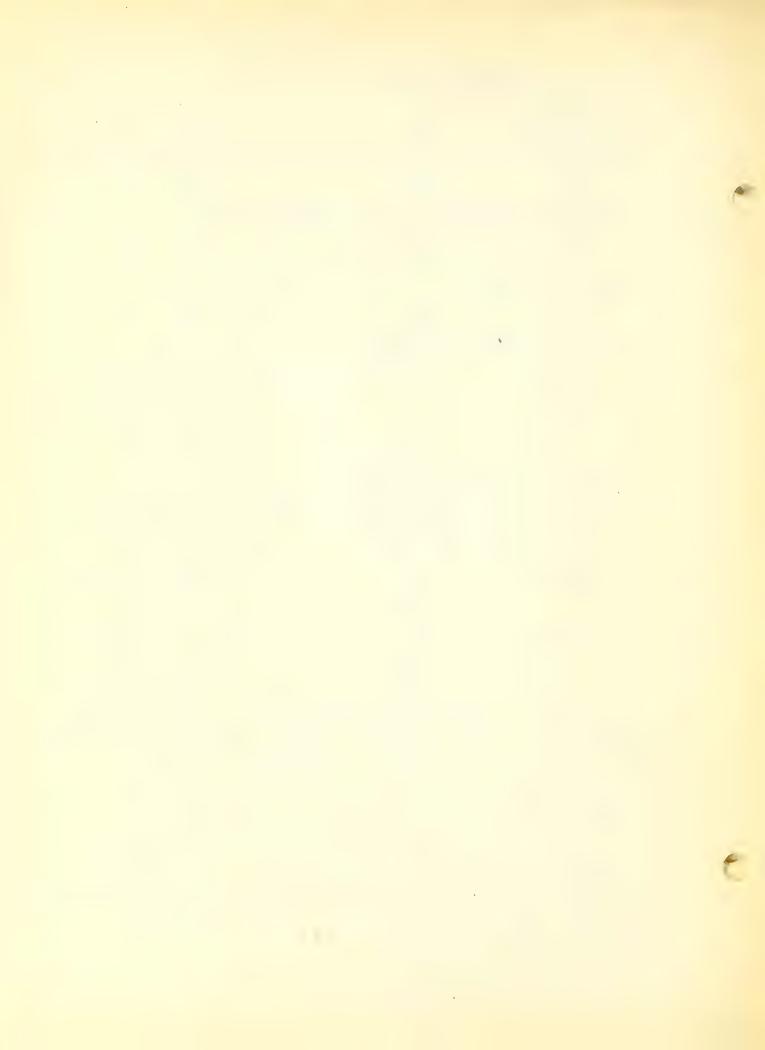
Potamogeton pectinatus L.

Hanover Jesup 1276 3.

Potamoreton Pobbinsii Oakes.

Reported by Jesup ('2.) from Enfield and Lebanon; no specimen seen from county.

- #1. Svensen 1925 Rhod. 25 p.185
- 2. Jesup 1891 Flora and Fauna p.48.
- 43. Fernald 1931 Rhod. 33 p.57



NAJAS L. Naiad

Najas flexilis (Willd.) Nostk. & Schmidt.

Enfield | ennedy

JUNCAGINACEAE

SCHEUCHZERIA L.

Scheuchzeria palustris L., var. americana Fernald. (1.)

Bethlehen Faxon 1877,1879 C., W.

1890

ALIE GLAT

MARITTARIA L. Arrow-Head

Sagittaria cuneata Bheldon. (S. arifolia of Manual. 2.)

Hanover illiams 1710 G.

Sagittaria heterophylla fursh.

Hanover Williams 1910 0.

Sagittaria latifolia Willd., form hastata (Fursh.) Tobinson.

Enfield Kennedy 1390 3.

Sagittaria latifolia Willd., form gracilis (Fursh.) Robinson.

Wentworth Williams 1908 G.

Holderness Gundersen, Lowenstein 1914 NE.

Sveneon 1921 NF.

Canaan "inslow 1718 NT.

Sagittaria latifolia Willd., form diversifolia (Engelm.) Hobinson.

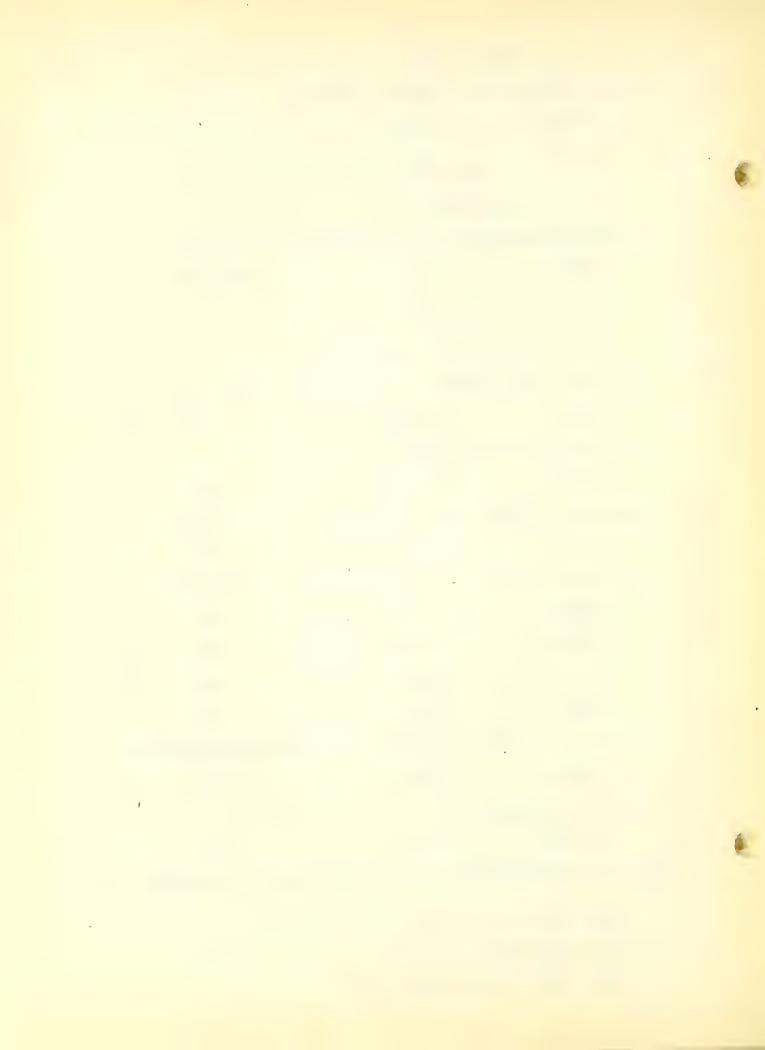
Holderness Svenson 1921 NE.

Sagittaria graminea Michx.

Holderness Syenson 1921 W.

Reported by Jesup (13.) from Hanover and Lebanon, but no specimens seen.

- 11. Fernald 1923 Rhod. 25 n.177
- \$2. Fernald 1921 Rhod. 23 p.192.
- 13. Jesup 1891 Flora and Fauna p.47.



LISM L. ater Plentain.

Aliema Clanta, o-aquatica b., var. parviflora (Tureh.) Torrell. (11.)

Haverhill Fernald 1917 W.

Lebanon Pease 1900 W.

HTEROCHAR STACKAE

VAL ISSTA (Mich.) 1. Hel Grass

Vallisheria emericana Michx. (V. spiralis of Manual. 2.)

Reported by Jeaup (4.) from Manover, but no specimens se n from county.

ORDER PRAMINALTA

JRAMINEAL

AME IP.) ON (Royen.) L. Beard Grass

Androvogon scorarius lichx., var. frequens Hubbard (3.)

Plymouth Fernald 1915 W.

Lebanon Fennedy 1893,1907 W.,1.

Andropogon furcatue ...uhl.

Sath	Fernald	1917	11 0
Plymouth	inomiton	1923	* * *
Lebanon	Kennedy	1977	7.

.JI.GHASTEUM Nash.

Sorghastrum nutans (L.) Nash.

Bath Pernald 1917 NF.

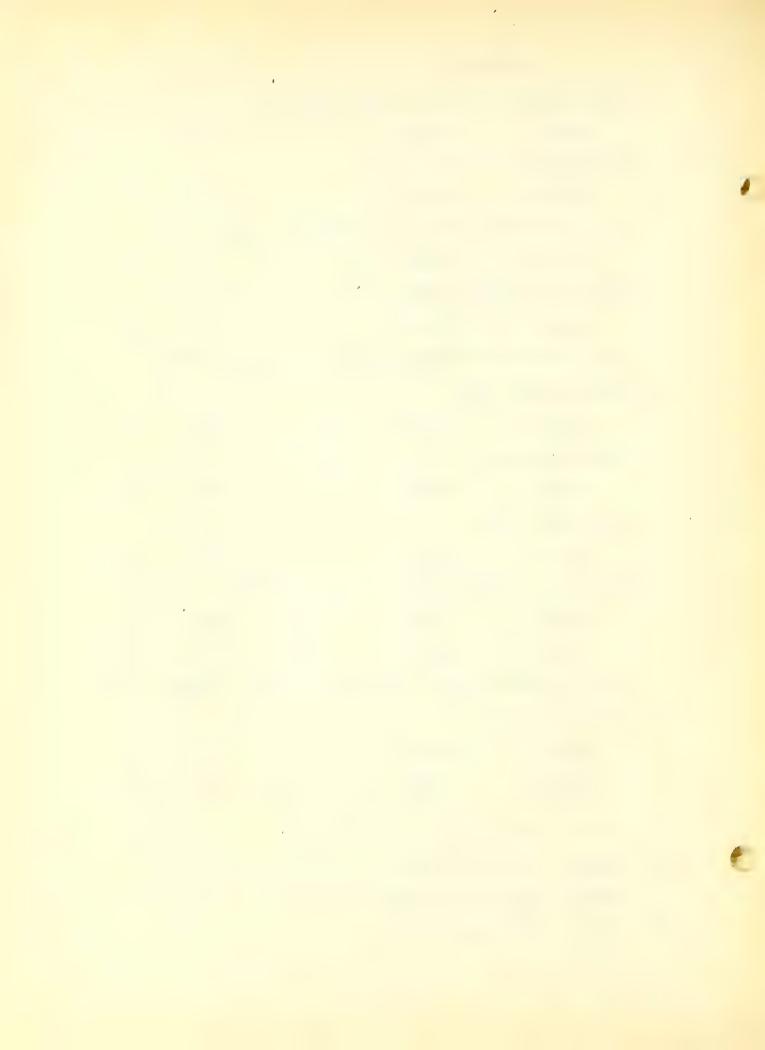
- 1. Farwell 1900 Annual Pept. Comm. Parks & Boulev. Detroit 11 p.44.
- 2. Fernald 1718 Phod. 20 p.108
- 43. Hubbard 1917 Bhod. 19 p.103

#4. Jesup 1891 Flora and Fauna p.42.



PATICIN L.

	ranicum ce	pillar	,	ver. occiden	tele Tydb. (1.)	
	f.ebar	non		Kennedv		1391	٠
	Fanicum I	ickerme	ni Fer	nald. (1.)			
	Holde	erness		Svenson		1921	MF.
	Panicum de	rockege	atum A	thl., ver.	:ilophyllum ?	ernald. (2.)	
	· oods	etick		Fernald		1915	×.yr
	Panicum li	inearif	Slium	leribn.			
	Plymo	outh		Ternald		1915	• •
	Panicum 1	lniori ^z	olium	Scribn., ver	Terneri (Co	ribn.) Fernald	3.
P.	Torne. Lo	ก็ ล่าวน่อ	1. "3.)			
	"o -da	Socia		Wernald		171=	4 (4)
	Penicum di	l choto.	an L.				
	Plymo	outh		Fernald		1915	G.
	Panloum bo	reale	Nash.				
	1000	tock		Fernald		191	110
	Panicum Li	indheis	eri Va	sh., var. se	otentrionale	Ternald. ["L.	. >
	V Jude	tock		Ferneld		1915	3.77
	Flymo	outh		Fernald		1915	``ĭ •
	Panicum Li	indheir	eri ka	sh., ver. fa	siculatum (To	orr.) Fernald.	(4.)
P.	huachucae	e of his	nual.)				
	¶ oods	tock		Pernald		1915	G.
	Havel	rhill		Fernald		1917	- F
		* ^ * ^		62 210			
	Fernald						
2.				23 p.193.			
	Fernald						
4.	Fernald	1921	shod.	25 p.227.			



Panicum Lindheimeri Nash., var.implicatum (Scribn.) Fernald. (#1.)

(P. implicatum of Manual.)

Toodetock Fernald 1915 TT.

Haverhill Fernald 1917 VF.

Panicum subvillosum Ashe.

Lebanon Fernald, Hunnewell 1920 1.

Panicum tsugetorum Nash.

Haverhill Fernald 1917

Panicum columbianum Scribn.

Plymouth Pernald 1915 M.

Panicum xanthophysum Gray.

Bethlehem Pease 1922 NE.

Toodstock Fernald 1915 Th.

Haverhill Fernald 1917 JE.

Plymouth Fernald 1915 NE.

Reported by Jesup (3.) from Hanover and Lebanon, but no specimens seen.

Panicum clandestinum L.

	Vooletock	Fernald		1715	T)
	Lebanon	Xennedv	1396,	1707	.,7.
Pan	cicum latifolium L.				
	Bath	Pease		1750	4
	Plymouth	Fernald		1915	•

Kennedy

Lebanon

TE:

1907

^{1.} Fernald 1921 Rhod. 23 p.228

^{2.} P.columbianum was called by Hubbard, P.heterophyllum, but columbianum valid.

^{3.} Jer ip 1891 Flora and Fauna p.52.



IL TINUMII JA Sesuv.

_chinochloa crusgalli (h.) esuv.

Naverhill erneld 1917 1.

Tarren illiams 1708 3.

. MI. . eauv.

etaria lat s ens lubb. (.. planca of Manuel. 1.)

erren filliame 1900 3.

: etaria viridis (1.) Beauv.

Tarren lilliams 1908 .

etaria viridis (L.) Reauv., var. "einmannii (P.% 1.) rand. (2.)

obdaville 'illiams 1908 ...

Setaria italica (L.) Seauv., subspecies straminosfructa Hubbard

var. Hostil Hubbard Subvar. Metzgeri Mubbard (7.)

Lebanon Kennedy 1390 :

LEGASIA : w. . ut-Grass

Leersia orvzoides (L.). w.

Wentworth Williams 1908 3.

arren Tilliams 1900 4.

HIMFOUR (Amel.) B.Br. Holy Grase

Hieroch'se odorata (L.) "ahlenb.

Pranconia Faxon 1999 ...

Infield inowiton 1987 WF.

- 1. Hubbard 1916 Rhod. 18 p.231-236
- 2. Fernald & Wiegand 1910 Rhod. 12 p.133.
- 7. Mubbard 1915 Am. Jour. Bot. 2 p.191.



Hierochloe alpina (aw.) . & ..

Franconia	axon	1337	•
	Fuller	1.390	
	Vernald, Smiley	1015	41.
J+1 1.301	11 .ichx. Mountain Rice.		
Oryzoneis pangens (To	orr.)Hitch.		
Plymouth	Fernald	7 27 9	•
Ashland	craald	1016	577
Oryzonsis asperifolis	dichx.		
Solderness	Wernal d	1915	12 ™ •
Canover	Mickard	1846	No.
Lebanon	Kennedy	1995	3.
	Pease	1907	13"
	BPH.	190	****
	FRIA Schreb.		
Auhlenbergia foliosa	Trin.		
Franconia	lennedv	1907	**
Tarren	"illiame	1908	Ĵ.
Suhlenbersia mexican	a (L.)Trin.		
Lebanon	Kennedy	1977	•
Muhlenbergia racemos	a (Michx.)		
Franconia	Faxon	1392	11.
	Kennedy	1907	
Lincoln	irige	1917	***
entworth	illiama	1708	7.
Plymouth	Fernald	' 915	5.



1 7 7 7

B.

1915

1975

```
Muhlenbergia uniflora (Muhl.) Vernald. ( porobolis uniflorus of
Magual. (1.)
                                               1 1/3
                                                        .
    Franconia
                     Wa. Toott
     oodstock
                      Ternald
                                              1915
                                                        . . .
     entworth
                      Williams
                                               1998
                                                        77
               . HYMLYT M. Beauv.
  Brachvelyir on erectum (.chreb.) Reauv.
      Franconia
                                                        . .
      Toodstock
                      rereld
                                                       11
                                              1915
                                                        Rh.
      Raterville
                                               1777
                       Tare
                                               137
      Holderness
                       Faxon
      Lebanon
                      dermedu
                                               1395
                                                        ~
               FHLEDU L.
  Phleum pratence L. Timothy
    littleton losson (viviparous form) 133
                                                       7
      ranconia
                    res (viviparous form)
                                                         P .
      aterville
                    are
                                                1 >>
                                                         5
                      illiams
      entan
                                                1907
                                                        .
               ASAUSTIS L. Bent Grass.
   Agrostis alba L.
      Franconia
                     lm.doott
                                                1357
                                                        .7.
      Lebanon
                      Pesse
                                                1 7 7 1.
                                                         117.
   Agrostis albe L., var. vulgaris (lith.) Thurb.
      Bethlehem
                      Conant
                                                1878
                                                        3.
      "podstock
                      Fernald
                                                1915
                                                         ....
```

71. Fernald 1927 Rhod. 29 p.110.

Fernald

Tare

Lincoln

Taterville



```
Agrostis alba L., var. aristata Jrav.
     'orderock Formald
                                                          B.
                                                 1 215
   grostis hyemalis (Talt.) BDP.
                                                          101 .
      Dodetock
                      ernald
                                                 1715
                                                 1910
                                                          G.
     erren
                      "illiama
   agrostie perennane ("alt.) fuck rm.
                                                          77 4
                      Fernald
                                                 1915
      Lincoln
      "aterville
                      Gushaan
                                                 1010
                                                           erostis canina i.
                                                  1975
                                                           3.
      'aterville are
   Agrostis borsalis Wertm.
                       Tr. Poott
                                                 1970
                                                          175
      Franconia
                       Faller
                                                  1: 77
                                                          Ternald, Lmilev
                                                  . 332
                                                          WW.
                       Chickeny
                                                          ٦.
   agrostis torealis Hartm., var. americana (Scrib.) Fernald. (1.)
                       Wm. Boott
                                                 1853
                                                          Te.
      Franconia
                       Fernald, Smiley
                                                 101"
                                                          \2 F
                                                          3.
                        Tuckerman
               Calavaniosiis adans.
   Calamagrostie Pickeringii Tray.
                                                  1777
                                                          W.
       Pethlehem
                       Faxon
      Foodstock
                     Ternsld
                                                          Te.
                                                  131"
   Calamagrostis Pickeringii Gray., var. debilis (Fearney) Fernald & Fiegand.
(-2.)
    Bethlehem
                       Pringle
                                                          NB.
                                                  1877
"1. Never Published
2. Fernald & Wiegand 1913 Rhod. 15 p.135.
```



	Pethlehem	Faxon	1879,1887	9.,85.
	Franconia	"m.Foott	1361,1167	7.,72.
		1 aron	1871,1890,1891	ur.,G.
		ruller	1937	20.
		Fernald, Jackson	101°	TR.
	"podstack	Fernald	1915	27.
	Thornton	6 9	191	21.
Caler	sacrostie sickering	ii -ray, var lacus	tris (learner) Itch.	,
	Toodstock	Fernald	1915	217 •
(alar	cagrostic canadensi	s (lichx.) Teau.		
	Franconia	axon	1 4/1	1.
		Pernald	1,15	
	oodstock	Cernald	1218	1.0
	arren	illiams	2003	G.
	1,etanon	Yennedy	7))	3.
ala	us rostis canadensi	s (ichx.) Teauv.,	var. robusta Tasey	(1.)
	Tanconia	m.Poott	9 1/7	3.
		_'enuedv	1,430	J.
		: ayon	1001	* ***
	Lincoln	Fernald	1 215	10.
	Fenton	Fanon	1/36	
		illiams	1907,1903	3.,
talar	negrostis canadensi	s (wichx.)Beauv.,	ver. Langedorfii (Li	ink.)
Inman.	(1.) (0. Lanes	dorfii of Manuel.)		
	Bathlahem	Paxon	7 7.7.7	1.
	Franconia	Huntington	1376	7.
		Taxon, Fuller	3 720	7F.
Reporte	d from Lenton by Jo	esup (1.), but no	snecimen seco	

"1. Inman 1922 Phod. 24 p.143.

#2. Jesup 1891 Plora and Fauna p.53.



3	1	400	

	Cinns Prundingsea	7		
	Flyno ith	inselton	1	
	.inno latifulia (.	rev.) lriseb.		
	Lincoln	irigra	1 21	Tell.
	etcrville	vehran	1910	ne.
	Benton	illians	1903	Mr.
	arren	illians	1903	7.
	Hanover .	Williams	1910	G.
	6.0141.01	OPHOLIC Leriba.		
	Eshenopholis salle	ns (Sprenc.) cribn.		
	Moedah: c	ernald	1915	1 2 4
	entworth	illians	1910	2.5 .
	Flywouth	Fernald	3030	111-
	Hanover	illiams	1910	0.
	Lebanon	Vennedy	1390	(*)
	TRIST	The Pere.		
	Trisetum picatum	(L.) Fichter., var. molle (Wichx.)Firer.	(1.)
	lleverhill	Ternald	1917	**************************************
	Lebanon	DIH.	1920	0
		HAMPEIA Beauv.		
	Leschaupeia flexue	osa (L.) Frin.		
	Pranconia	Waller	1332	m.
		Millians	1874	1 in 0
		Fernald, Emiley	1915	
	lincoln	Fornald	1915	•
. (1	1. Father Louis-Mar	rie 1928 Bhod. 30 p.239.		



Benton	Williams	1707	NE.
Vaterville	Vm.Boott	1360	
AVTO	(Tourn.)L. Oat		
Av na sative L.	(Idurn.)E. Oac		
Warren	Williams	1908	ne.
warren	Williame	1900	
LANTH	ONTA Do. Wild Oat G	ress	
Danthonia spicata (L.)Beauv.		
Woodstock	Fernald	1915	NE.
Lanthonia spicata (L.)Beauv., var. long	ipila Scrib. ('1.)	
Boodstock	Fernald	1915	264.
י מים	WITC Daniel		
	OLTIS Beauv.	0.93 #0.	
	Schrad. (F. pilos		
Sethlehem	Pease	1924	9
SCHIT	ACHVE		
Schizachne purpunas	cens (Torr.) Swallen.	(Melica striata of	(anual. "3.)
Franconia	Faxon	1896,1897	•
Woodstock	Fernald	1915	
Lebanon	BYH.	1920	N DA
T CTY	LIS L. Orchard Gras		
Dactylis slomerata		~ •	
		3007	ME
Hanover	Flint	1837	NE.
	Filliams	1910	G.

- 1. Lamson Scribner 1901 Circ. 1.S. Dept.Agr., Div.Agrost. 30 p.7.
- 2. Long 1919 Phod. 21 p.139.
- 73. Swallen 1928 Jour. "ash. Acad. Sci. 18 p.204.

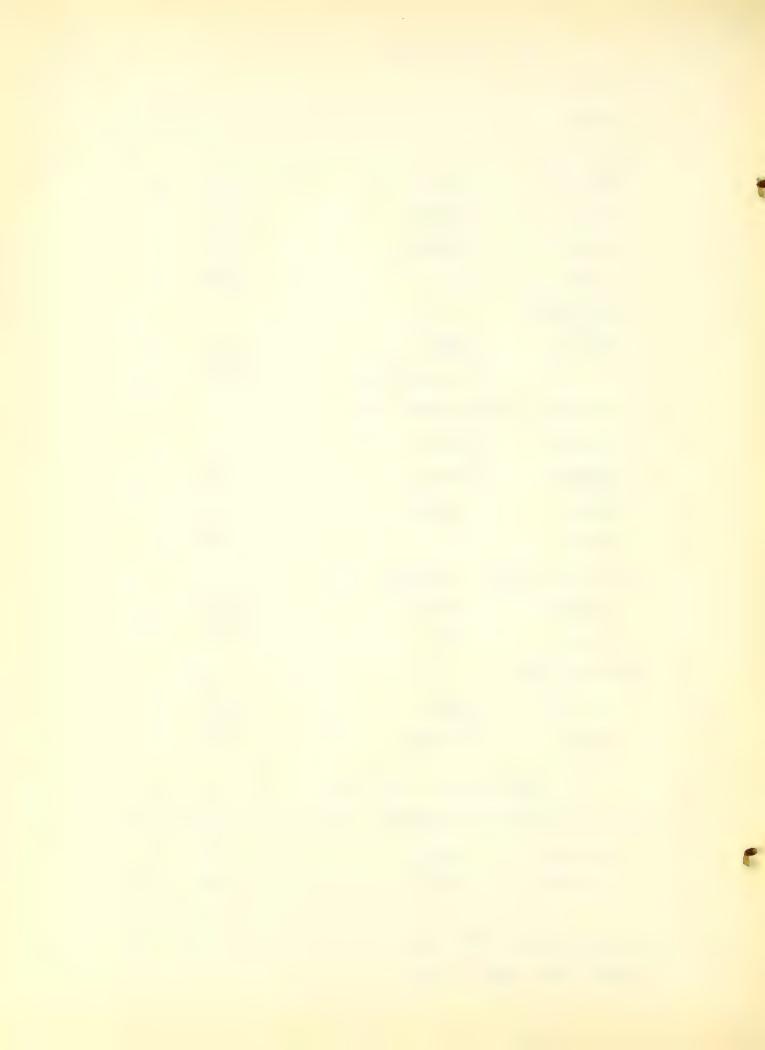


TOA L. Weadow Grass.

Poa	annua L.			
	elanon	BFH.	1320	W.
Poa	compressa L.			
	Woodstock	Fernald	1915	1 .
	Benton	"illiame	1777	
	Plymouth	'nowlton	1915	A* 7 ·
	Lebanon	BTH.	1929	4°1
Poa	laxa Haenke.			
	Franconia	Fuller	1870	# ₹ # ° • •
		Wernald, Omiley	1915	. 7
Pos	pratensis L. Ken	tucky Blue Grass		
	Woodstock	Fernald	1917	**** *
	Haverhill	Fernald	1917	1 m 4 m - ■
	Hanover	Hitchcock	1376	•
	Lebanon	вгн.	1353	1.
Pos	saltuensis Fernal	d & "ie and. (1.)		
	% oudstock	Fernald	1915	•
	Lebanon	N.A.	1770	•
Poa	alsocee Gray.			
	Franconia	Faxon	1979	*1.
	Plymouth	"m.Boott	1 255	•
	Of VOEDI	A.T. Draw James Cross		
- 113		AT.Br. Janua Grass.	of Venuel	2 1
11,		ichx.)Hubbard (G. Torrevana	1867	
	Franconia	Tm. Poott		
	"oodstock	"ernald	1920	•

^{11.} Fernald & Miegand 1918 Phod. 20 p.122.

^{2.} Hubbard 1912 Phod. 14 p.186.



% e .	terville	Bare	1905	Bi.
∵ @	rren	lilliams	1910	7.
Sr	istol	Fich	1 193	77
Glycer	a canadensis (Mic	chx.) rin.		
Γr	anconia	"m.Roott	1365	13.
″ o	odstock	Terneld	1715	77.
· 9	rren	"illians	1910	1.
alycor	ia striata (Lam.)	Hitch. (3. nervata of Manual.	(1.)	
¹ 0	odstock	Fernald	1915	• 8
Li	ncoln	.rig.	1915	•
Na	rren	"illians	1910	2.
Но	lderness	*axon	1 %	-
lvcer	a grandis mate.			
₹ €	ntworth	Williams	1910	G.
î.e	banon	Fennedy	1396	7.
lveer	ia Fernaldii (Hito	ch.) St. John. (G. pallida, ve	er. Ternal	dii of
Manuel. "	2.)			
Th	ornton	Pease	1903	•
Rycer	ia burealis (Nash)	atchelder.		
"e	thlehen	Tuckerman	1343	3.
		Paxon	1813	3 •
ile	nover	Filliams	1910	4.
	FESTUCA I	. Fescue Grase.		
Festuc	a ovina L.	•		
	anconia	Faxon	1897	
-				

^{1.} Hitchcock 1923 Broc.Biol.Soc. ash. 41 p.157.

^{12.} St.John 1917 Rhod. 19 p.76.



estuce capillata Lam.	(". ovina, var.capillata of	enuel.	1.)
Franconia	Pernald, Luilev	1915	/•
Festuca elation L.			
oodstock	Fernald	1910	ij.
lla over	Villiam	1910	
Lebanon	ionnedy	1776	** •
Product.	frome drass.		
Fromus ciliatis L.			
"arren	Tillians	1 203	
Promue ciliatus I., va	r. Intonous Pernald. ("2."		
Franconia	โลรวท	2027	
finoolo	ermeld	1915	•
arren	"illiegs	1913	•
Henover	Tickard	1840	<u></u>
	Filliams	')10	7.
Lebanon	onnedy	7 331	•
romus altissimus Purs	h.		
Heverhill	ernald	1917	•
"lywouth	Enswiton	1915	m.
Proxus "alili Gray.			
Howerhill	Perneld	1917	• • •
JAILIE			
Nardus stricts L. (].			
*aterville	Lorenz	1913	
·Hubbard 1915 Shod. 1	3 p.275.		

2.Fernald 1930 Thod. 32 p.70.

7. Lorenz 1919 Rhod. 21 p.22.



ABRUFYRON 'am, tn.

Agronyron repens (L.) Beauv.

Toodstock Fernald

1915

Agronyron caninum (L.) Reauv., form pubeacens (Scribn. & Sm.) Peace &

Moore ('1.)

Piermont

"illiams

1773

Agropyron caninum (L.) Beauv., var. tenerum (Vasey) Peace & Moore (#1.)

Woodstock

Fernald

1915

NT.

7

ELYMUJ L. Wild Rice.

Elymus virginicus b.

Plymouth

Fernald

1915

11.

Elymus robustus Scrib. & J.G.Sm., var. vestitus Tiegand. (2.)

Plymouth

Knowlton

1916

715

Fernald

1915

724

Flymus riparius Fiegand. ("3.)

Toodsville

Filliams

1908

19 9.

ASPERGLIA Humb. (Hyetrix of Manual. 14.)

Asperella Hystrix (L.) Humb. (Hystrix patula of Manual. 5.)

Plymouth

Fernald

1915

NE.

Asperella Hystrix (L.) Humb., var. Bigeloviana Fernald (6.)

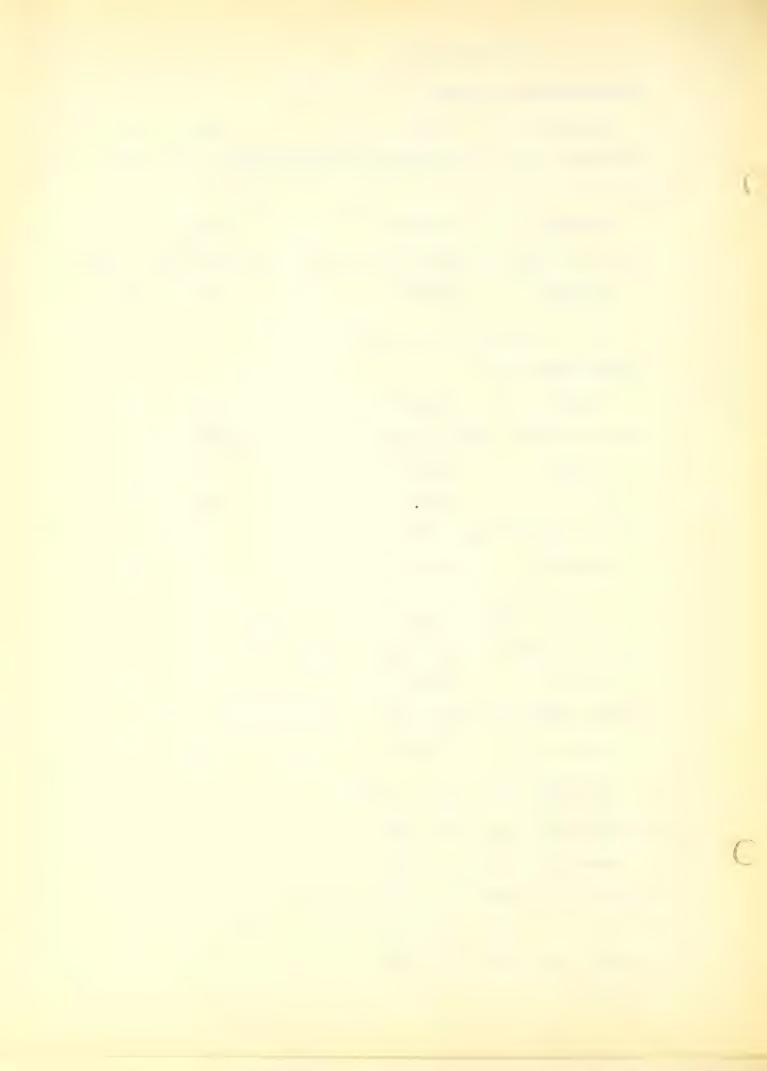
Hanover

Williams

1910

(6.)

- #1. Pease & Moore 1910 Rhod. 12 p.71.
- 2. Wiegand 1913 Rhod. 20 p.90.
- 43. Wiegand 1918 Bhod. 20 p.84.
- #4. Hubbard 1912 Bhod. 14 p.187.
- '5. " " " " " " "
- 6. Pernald 1922 Fhod. 24 p.270.



FAMILY CUPERAGEAR

CYPERIL (Tourn.) L.

Cyperus	rivularis	Kunth.
---------	-----------	--------

3 / D 0 0 0 2 2 7 0 2 2 0 0 0 0			
Hanover	Blanpied	1.374	***
Lebanon	Kennedy	1890) t
	Pease	1911	E.
yperus dentatus io	rr.		
"entworth	Tilliams	1908	77.
Holderness	§ venson	1921	m.
Cyperus strigosus L	•		
Lebanon	Kennedy	1391	G.
	Pease	1901	111.
Cyperus filiculais	Vahl., var macilentus Fe	ernald.	
Plymouth	Pernald	1915	*********** *

LULICHIUM Pers.

Dulichium arundinaceum (L.) Britton.

Bethlehem	Faxon	1877,1878	MF.,G.
entworth	illiams	1908	G.

LESCHARIE T.Er.

Eleocharis Robbinsii Jakes.

Tentworth Williams 1908 3.

Enfield Reported by Jesup (#1.), no specimen seen.

"leocharis olivacea Torr.

Lebanon Reported by Jesup (#1.), no specimen seen.

Tleocharigapitata (L.)R.Br. (E.tenuis of Manual #2.)

Woodstock Fernald 1915 NE.

11. Jean 1311 Flora and Fauna p.49.

#2.Blake 1918 Rhod. 20 p.23-24.



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Eleocharia capitata (L.) R. Br., var. borealia Fernald. (1.)
                                                 1903
                                                          -
       "arren
                        Williams
      lentworth
                       Williams
                                                 1708
                                                         TR.
  Eleocharis obtise (Willd.) Schultes.
       Haverhill
                       Fernald
                                                 1917
                                                         . 1
                                            1907.1713
                        "illiams
                                                          arren
                                                 1228
                                                         TE.
       entworth
                        "illiams
  Eleocharis obtusa (Willd.) Schultes., var. jejuna Fernald (2.)
                       Kennedy
                                                 1890 3.
       Letanon
  Eleocharis palustris (L.)R.43., var. major Conder. (var. vigens of
Manual. 3.)
       ethlehem .
                        Dakes
                                                          RE.
                        axon
                                                 1373
                                                          7
      Infield
                        Kennedy
                                                 1 130
  Fleocheris acicularis (L.) 3.8..
       Hanover
                        "illiams
                                                 1919
       Infield
                        Kennedy
                                                 1370
       Lebanon
                        Mennedy
                                                 1330
                                                          7.
                STHUDPHYLLUS Baf.
  Stenophyllus capillaris (L.)Britton.
   Foodstock Fernald
                                                 1915
                FIMBRISTYLI. Vahl.
  Fimbristylis autumnalis (L.) R. Br. (F. Frankii of Vanual. 14.)
      entworth
                        Williams
                                                 1978
1. Hot Yet Published
2. Ivenson 1229 Thod. 31 p.215.
3. Fernald & Brackett 1929 Rhod. 31 p.61.
14. Britton & Brown Ill.Flora 2'nd ed. 1 p.322. 1913
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	Tolleb.	! (rourn.	.) L.	Bul	rush.
Ccirpus	crespitosus	L.,	var.	call	susc	Pirel

Ccirpus crespitosus	L., var. callosus Pirel.	(11.)	
Franconia	Mm. Boott	1355,1970	"., WW.
	"illians	1394	TF.
	Fernald, uniley	1215	WK.
Scirous hadsonianus	(.ichx.)Fernald.		
Toodstock	Fernald	1915	
linc:ln	Vm.Boott	1 363	A, V . J**
Alexandria	Peg: 6	1726	•
infield	Knowlton	1 725	
Scirpus Jorrevi Jal	⊝ y•		
Mentworth	"illiane	1908	3.
cirpus rubrotineta	s Fernald.		
Franconia	Taxon	1 79	. ⊕ 70 m
Popdstock	Fernald	1915	WE.
Farren	"illians	ר דָּכָ י	, •
Lebanon	Ternald, Sunnewell	1720	•
cirpus sylvaticus	I. •		
Varren	"illiams	1717	™.,G.
Hanover	Jesup	1373	7.
ccirpus atrovirens	Wihl., var. georgianus (!	Harper)Fernald	
a. georgianus of Manu	(2.)		
Bethlehem	Faxon	1379	***

J C C C C C C C C C C C C C C C C C C C		- 1/	
Foodstock	Fernald	1915	NE.
Farren	"illiams	1910	13.
Lebanon	Kennedy	1898	~

- 1. Fernald 1921 Linod. 23 0.24.
- F2. H H P.134.



Scirpus evperinu	8 ()Kunth.,	var.	pelius	Fernald.
------------------	-----	----------	------	--------	----------

	entworth	Villiams	1910	NE.
i de	cirp s redicellatue	ernald.		
	Centworth	illiams	1917	ś.
	Hanover	Plint	Ţ	- O.
b	ciron padicellatue	formald., var. pullus	Fernald.	
	"err n	Fillians	1919	O.
	Manaver	illians	1217	3.
S	cirpus atrocinctus	Fernald.		
	Bethlehem	St. John	1912	NE.
	" počstock	Fernald	1915	W.
	Taterville	lare	1000	•
	Tarten	Villiams	1910	G.
	Lebanon	Kennedy	1390	G.
5	cirpus atrocinctus	Fernald., var. brachypo	odus Fernald.	
	Toodstock	Fernald	1915	
	arren	Williams	1 773	3.

ERIJPHJRUM L. Lotton Grass.

Eriophorum spissum Fernald. (E. callitrix of Manual. 1.)

Franconia	m.Boott			1855	3.
	Faxon			139	***
	Fernald,	Smiley		1215	NE.
Lehanon	Reported	hy Jesun	("2.). no	snecimens	seen.

^{*1.} Fernald 1925 Fhod. 27 p.208.

[&]quot;2. Jesup 1891 Plora & Fauna p.49.



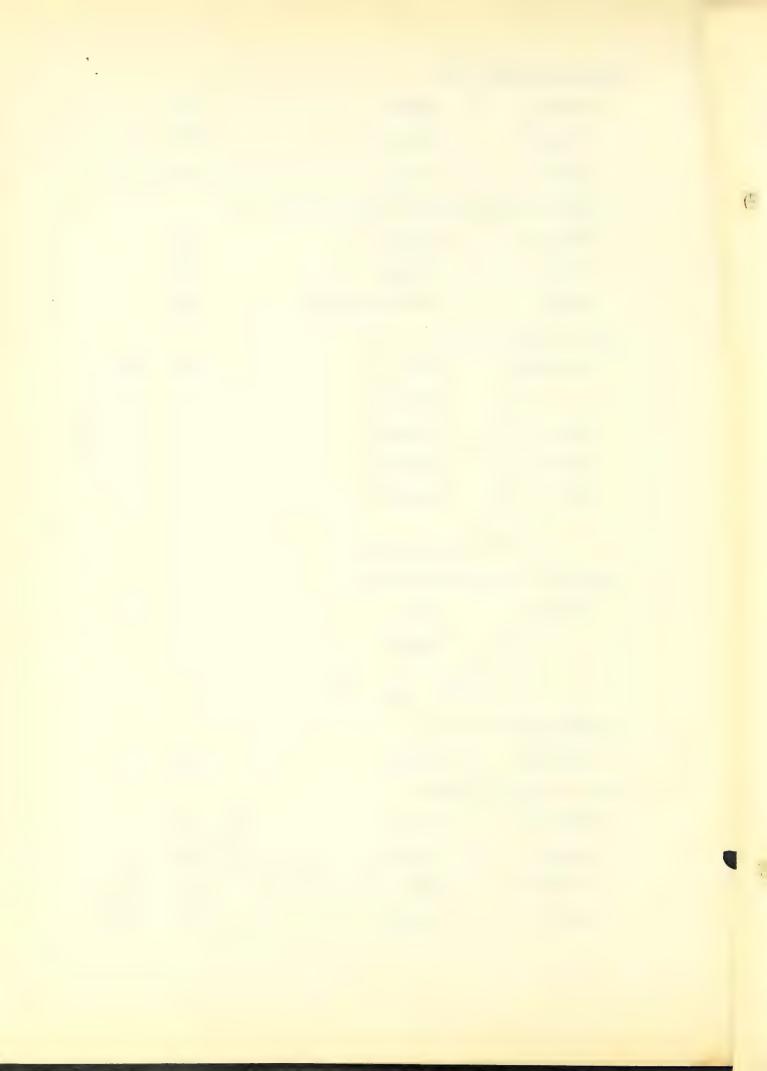
Eriophorum tenellu	am Nutt.				
Franconia	Kennedy	1907	7.		
"entrorth	Williams	1908	·		
infiel?	Kennedy	1870	1 •		
Tripphorum viridi-carinatum (Envelm.)Fernald.					
Tanconia	Ta. Poott	1000	**		
arrem	Williams	1710	7,		
Lebanon	Fernald, Hunnewell	1)27			
Briochorum virgini	icum b.				
"sterville	hare	1900	BS.		
	Cushman	1912	Pa .		
Warren	"illiams	1910			
Canaan	Winslow	1918	aka •		
infield	Kennedy	1390			
History	DETH Nees & Arn.				
Hemicarpha micrant	tha (Vahl.) Pritton.				
Holdernese	Faxon	1350	D.C.		
	Svenson	1921	HAM.		
5 YY (0	CYDEPURA Wahl. Beak Fush.				
Tynchospora fusca					
entworth	Billiams	13.3	5 g		
Evnchospora alba	(L.) Wahl.				
Rethlehem	Faxon		ym.		
Lincoln	Kennedy	1891	NE.		
atermille	Lorenz	1707			

Winslow

1913

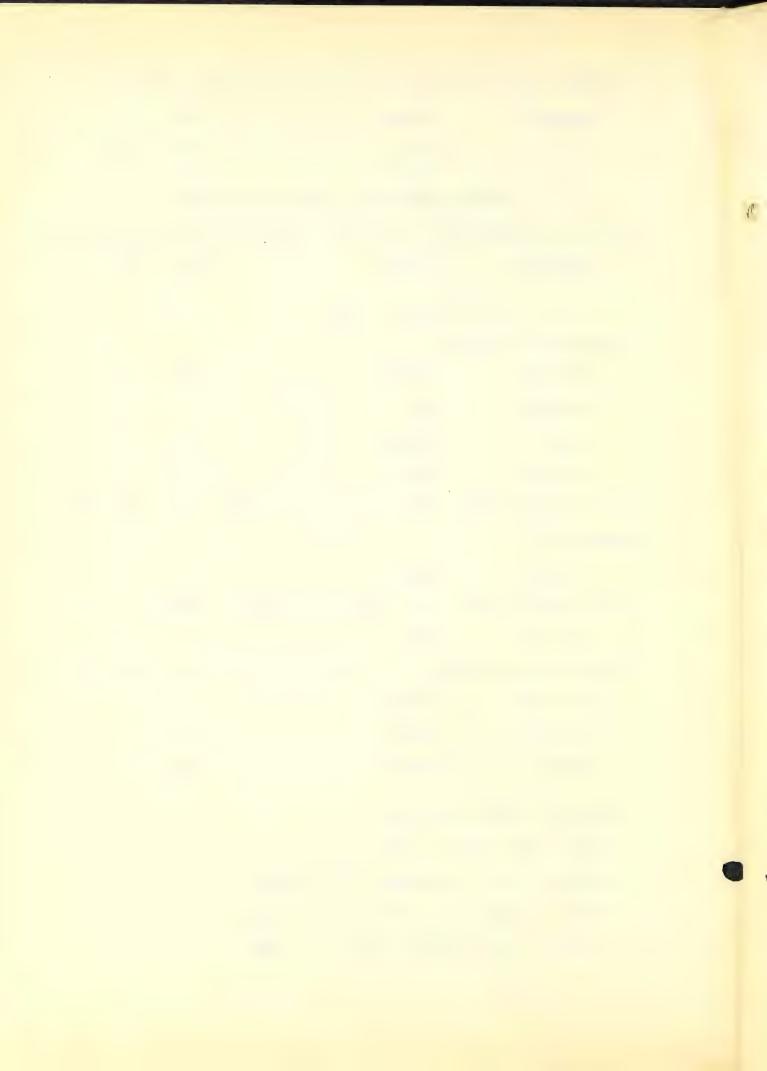
15

Canaan



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Pynchospora capitellata (Michx.) Wahl. (F. Flomerata of Manual. 1.)
                     "illiams
                                                 1908
                                                         9 9 9
       "entworth
                      "inslow
                                                          2 7 400
                                                 1919
       Canaan
               MaRISCUS (Haller)Zing. (Cladium of Manual)
   Mariscus mariscoides (Muhl.) Muntze. (Cladium mariscoides of Manual. 12.)
                                                 1908
                                                         HE.
       "entworth
                       "illiams
        JAREX (Ruppius)I. Eedge.
   Carex scoperia Tchkuhr.
                                                 1855
                                                          01
       Franconia
                      Fm. Boott.
                                                 10300
                                                          2.1.
       Foodstock
                 Fernald
       arren
                      Filliams
                                                 1773
                                                          .....
       "entworth "illiams
                                                 1908
                                                         ....
   Carex scoperia Schkuhr., forme monil firmis Kukenth. (Var. moniliformis
of Manual. 3.)
      Woodstock Fernald
                                                 1915 %5.
   Carex scoparia Schkuhr., var. subturbinata Fernald & Niegand. (4.)
       Haverhill
                    Fernald
                                                 1917 %.
   Carex projects Lackenzie. (C. tribuloides, var. reducts of Lanual. "5.)
                      Rm. Boott
                                                 1963 3.
       Franconia
       "opdstock
                    Fernald
                                                 1915
                                                          ME.
       Hanover
                      Hilliams
                                                 1212
                                                          1.
     Flake 1918 Rhod. 20 p.23.
17.
"2.
    Fernald 1727 Whod. 25 7.53.
13.
    Käkenthal 1909 Pflanzenreich IV 20 p.203.
44. Fernald & "legand 1912 Thod. 14 p.115-116.
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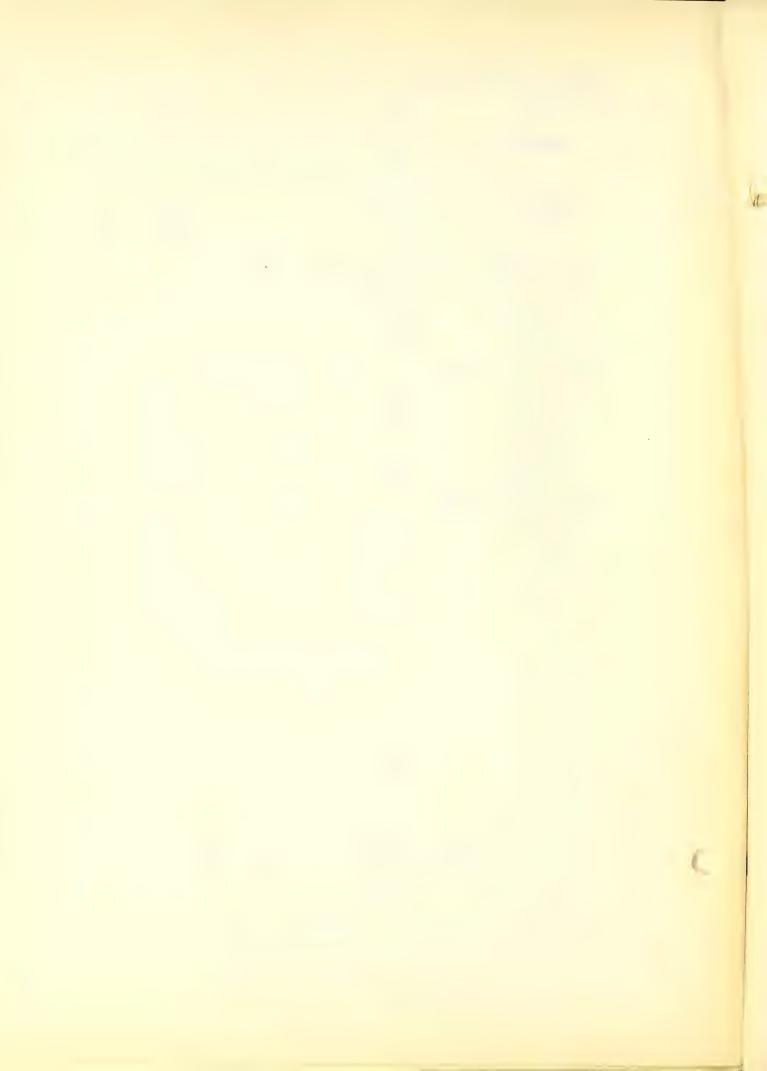
5. Mackenzie 1908 Bul. Por. Rot. Club 35 p. 264.



Carex	Cra	wford:	ii F	erns	ld.
-------	-----	--------	------	------	-----

Pranconia	Faxon	13)1	7.
oodstock	Ternald	1919	a willywin
arren	Filliame	1703	7
Lebanon	Kennedy	1800	7
	DIH.	1920	mr.
Carex Crawfordii Ferns	ald., var. vicens Fernald.		
Franconia	Im. Boott	1870	G.
Lincoln	Pernald	1915	II.
Carer tincta Fernald.	(C. mirabilis, var. tincts	of simual.	0(1.)
Lebanon	arm.	1920	75.
bodstock	Fernal d	1915	TE.
Bethleh m	Vazon	1337	7.
Carex mirabilis Dewey.			
lymouth	Fernald	1915	W.
Lebenon	filliams	1006	11.
	Kennedy	1097	17 ·
	ENH.	1920	* A & W
Carex tenora Lewey. (C. strawinea of Manual. (2.)		
Woodstock	Fernald	1915	1 (4)
Haverhill	Fernald	1917	TF.
Plymouth	Hoar	1658	VF.
Hanover	Williams	1910	3.
Lebancz	Fernald, Hunnewell	1)20	NF.
Carex Merritt-Fernald	ii Mackenzie. (C. festucacea	of .anual.	3.)
Plymouth	Fernald	1915	N.

- 11. Fernald 1915 Bhod. 15 p.186-187.
- 72. Fernald 1921 Thod. 23 p.235.
- #3. Mackensie 1925 Pul. Tor. Bot. 1 lab 49 p.370.



Carex Bebbii Jnley. 1717 Fornald Easton Carex foenea "illd., var. perplexa Bailey. TE. Haverhill Fernald 1 717 Carez senes Ternald. 1333 G. Franconia Faxon Carex Interior Bailey. (C. scirpoides of anual. (1.) Fernald, Hunnewell 1999 Lebanon Carex caphalantha (Bailey) Bick. (C. stellugta, var. conhalantha of Manual. 2.) 1377 ~ . Yennedy Francomia Carex angustion Jackenzie (D. stellwata, var. angustata of Manual. 73.) 1375 -Faxon Franconia lincoln 17, 9 7 Fennedy podetosk 1915 Pernald entworth illisms 3 3 3 7 . Lohanos Taton 3 35 3 7. Carex canescone L. 1357 375 Franconia Faxon Carex canescens L., var. subloliacea baestad. 11.77 Fernald, miley 1915 Franconia Carex canocomes L., var. disjuncta Fernald. Knowlton 191) --arren Carex Trunnascens Foir.

101-

1977

MT.

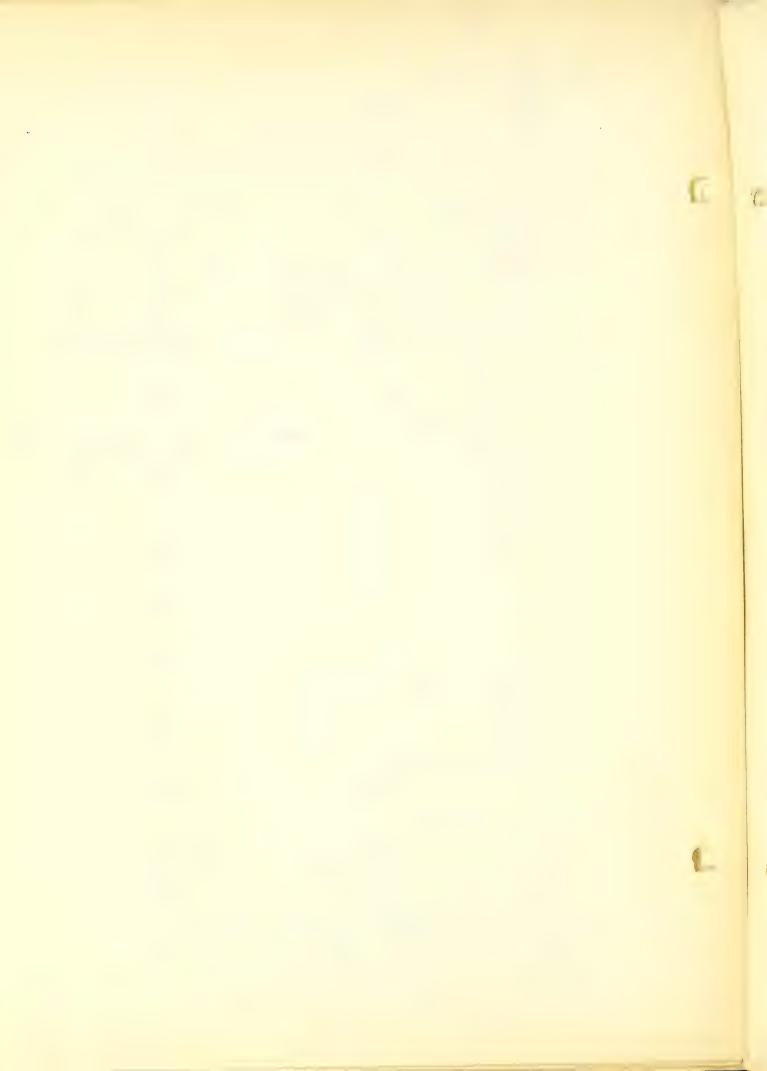
1. Mackenzie 1893 Bul. Tor. Bot. Club 20 p. 426.

Tilliams

Tranconia Fornald, Smiley

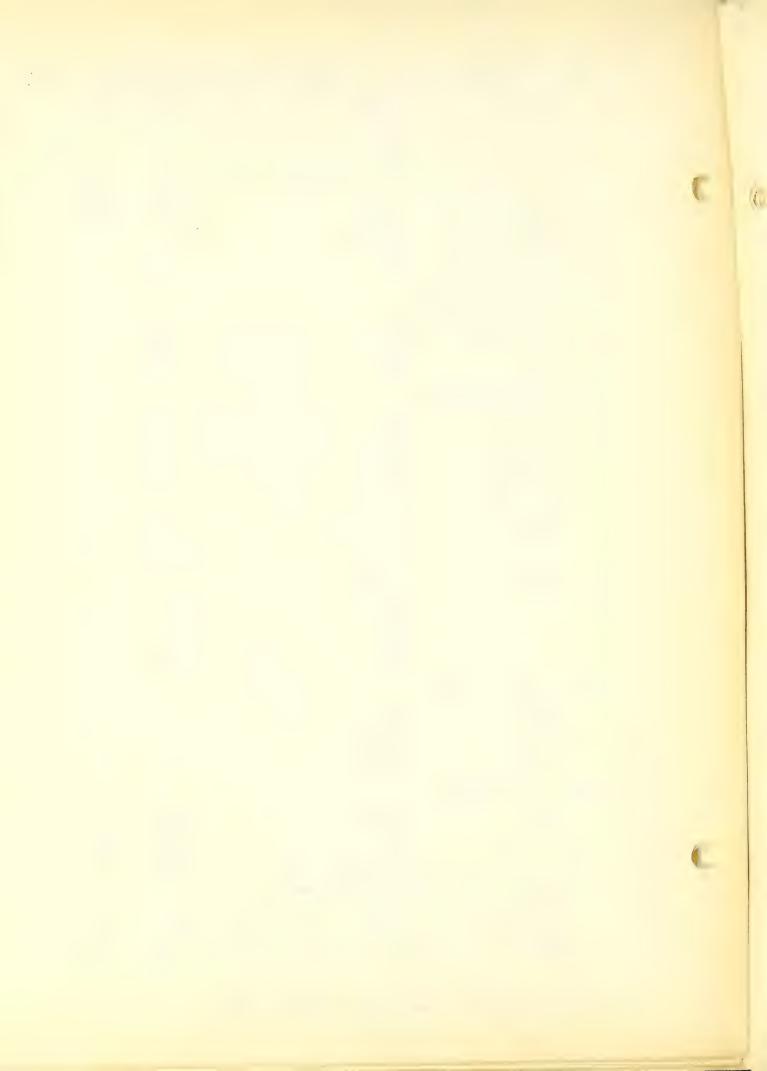
Benton

- 2. Bicknell 1908 Pul. For. Bot. Club. 35 p. 493.
- 3. Mackenzie 1951 N. Mer. Flora 18 pt.2 p.112.

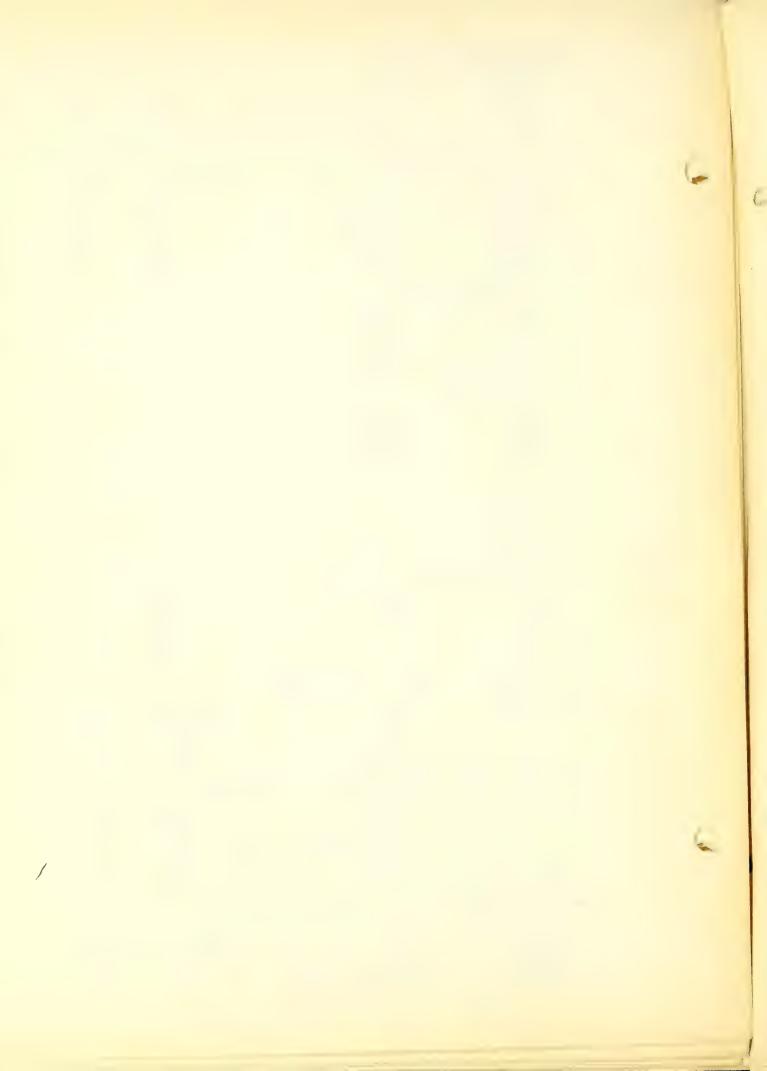


Carex brunnescens Toi	r., var. sphærostachya (Tuc	kerm.) Kuker	nth. (11.)
Francosla	Tr. Boott	1972	11 f a
	aron	1393	67.
	Farnald, Emiley	1 51 %	W .
Moodeteck	Farneld	1710	٠.٠٠
in'erville	Im.Postt	116	
ใดใน" on	TH.	1727	
Carex bro ldes Schku	hr.		
Bethlehm.	Pease	1922	2 * •
i si anu i	p-m.	1720	
Carex Devenant Laberi	n.		
Francesia	Faxon 1938,1391,169	5-1:07	i. To a TE.
(30881.08)	Fernald	1915	5 L + 1
halven acr	Faxon	1200	· •
Hanover	Edmondson	1903	ैं •
	Villiams	,1210	* •
Lebenon	Kennedy	1994	T" •
	Pegse	1907	WF.
	F. € 74	1920	10.
Carex trispersa Jewey	•		
Franconia	Cockerman		3 •
Unfield	Zennedy		2.
Carex rosea Schkuhr.			
Lebano	Kennedy	1394	£45
	PFM.	1920	mn.
Carex roses : chkuhr.,	var. radiata levey.		
Toodstock	Fernald	1)15	•
Lebanon	BIH.	1720	7 (C)

^{#1.} Käkenthal 1909 Pflanzenreich IV 20 p.220.



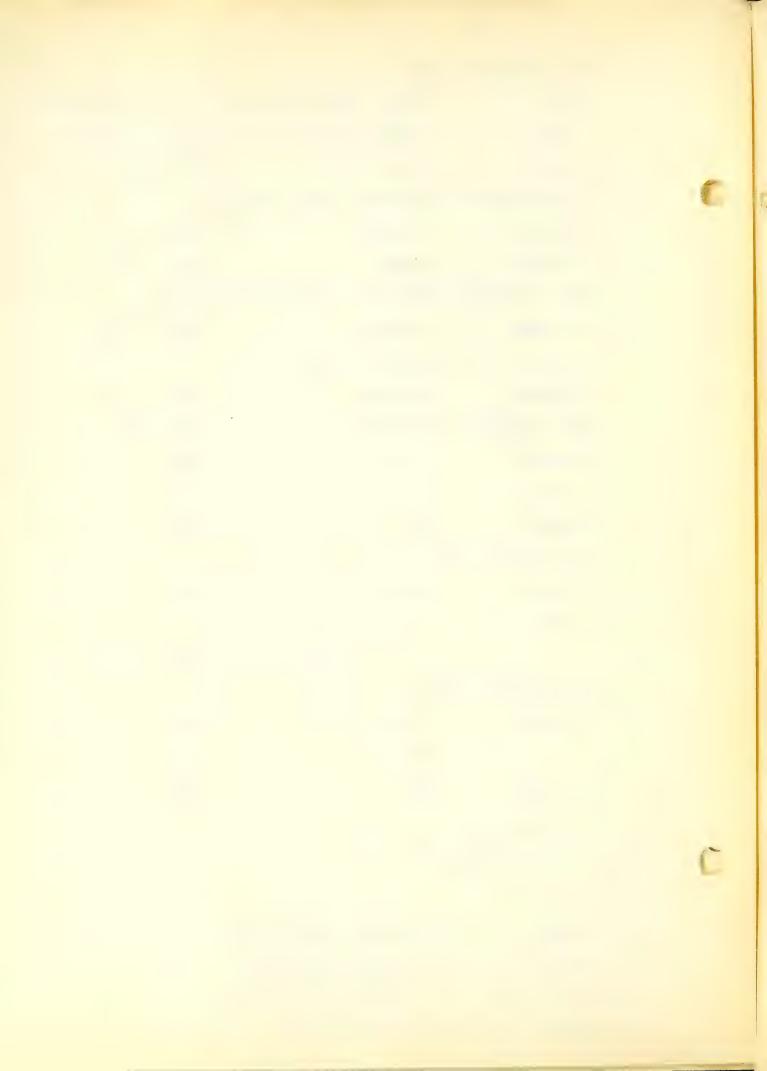
tarev whlenkergii dekkahr.							
:1	everhill	Telengal d	1 717				
*	Tyles (\$1)	<u> "ਨਾਲਗੀ ਹੈ</u>	10)4				
Carey cenh laides Lewey.							
0	ethlehus	C e426	1 , 5	. •			
4	lymatti	Wernald	1 ::	110,			
Ţ	el anon	lin.	1,70	11			
Carex	val lauidea .ich	ıx.					
9	arren	"illiane	1317	W.,•			
М	FLUVEC	illiame	131				
Caren	stimule Muhl.						
^	9.7 r 0).	illiams	1				
1)	el anon	kenedy	13%)	7			
			2 .~	4			
Carex	Carer critica nam.						
T,	etanon	Kennedy	100	7.			
Carex	crinita Lam., va	w. gynandra (Schwein.)	chwein orr	•			
Ţ	isbon	Faxon	1847	3.			
Ĺ	ebanon	eaton	1/20	11.			
Carex	crinite bam., ve	r. similans Fernald.					
1.	ranconia	laron	1390,1391	3.,117.			
		remain	1910	, p			
Carex	rigida Joed., va	r. Eigelowii (lorr.)Tuo	kerm.				
1	ranconia	Na.Boott	1353	100			
		ernald, Smiley	1915	•			
3	enton	Williams	1927	* * * * * •			
Carex	Carex torta Soott.						
F	ranconia	*axon	1397,1992	77.,5.			
†	gbanon	Fernald "mewell	1720	AR.			



Carex lenticularis Michx.

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Orford
                    Grover Reported by Jesup ([1]), no specimen seen
                    Kennedy Reported by Jesup ("1), no specimen seen
   Enfield
                    Kennedy
                                              1890
                                                      G.
   Lebanon
Carex lenticularis Michx. (var. Blakei Dewey) (2.)
   Bethlehem
                    Mm. Boott
                                               1855
                                                        G.
  Boodstock
                   Fernald
                                                       NE.
                                               1915
Carex lenticularie Wichx. (var. albi-montana Dewey) (#3.)
   Franconia
                    Mm. Boott
                                               1855
                                                        G.
Carex acuta L. (C. Goodonowii of Manual. #4.)
  Dorchester Edmondson
                                               1908
                                                       G.
Carex Haydeni Lewey. (C. stricta, var. decora of Manual 5.)
  Franconia
                   Paxon
                                               1888
                                                       Ashland
                    Fernald
                                               1916
                                                        - T.
  Lebanon
                    BFH
                                                       2777
                                               1920
Carex striction Lewey (6.)
  Franconia
                    Wm.Boott
                                               1855
                                                        G.
                    Graves (Have not seen
   Lisbon
                               specimen)
                                               1893
                                                       (7.)
Carex pauciflora Lightf.
  Bethlehen
                     Mm. Boott
                                               1855
                                                       G.
                     Faxon
                                               1379
                                                         TT.
   Franconia
                     Hoar
                                               1358
                                                       TE.
```

- 1. Jesup 1391 Flora & Wauma p.50.
- 2. "ot a good Tariety
- 43. 8 4 A B
- 4. Mackenzie Bul. Torr. Bot. Club 50 p. 343
- \$5. Mackenzie 1915 Bul. Torr. Bot. Club 42 p.410.
- #6. Mackenzie 1915 Bul. Torr. Bot. Club 42 p. 415
- 47. Mackenzie 1915 Bal. Torr. Bot. Club 42 p. 418.

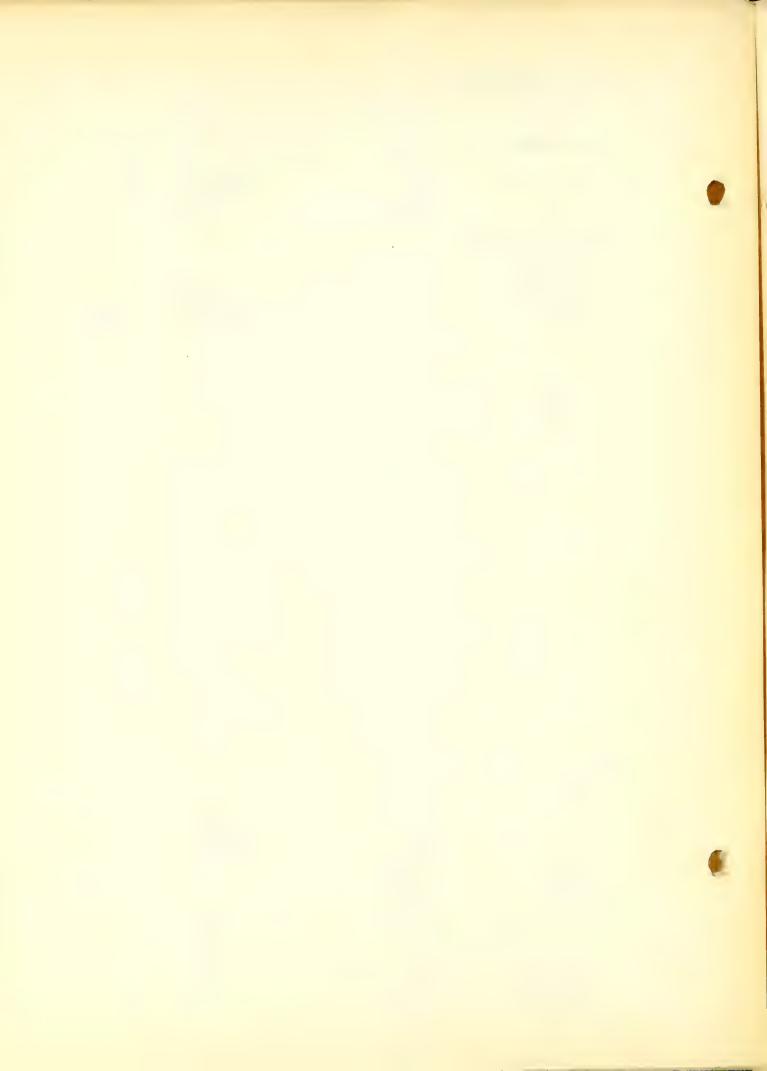


Franconia	Nm.Poott	1363	G.
	Paxon	1377	7.
	Fernald, Smiley	1915	E.
	Oakes		BS.
Lisbon	Faxon	1837	7.
Lincoln	Lorenz		. ₹ *** •
Carex leptalea "ah"	lenb.		
Lebanon	Maton, Fernald, Hunnewell	1920	WE.
Carex virescens Wul	hl., var. Iwanii Fernald		
Hanover	Williams	1910	NT.
Carex gracillima 3	chwein.		
3ethlehem	Pease	1922	Mu.
Pranconia	Mm.Boott	1855	0.
		1395	* * •
Toodstock	Fernal d	1915	ne.
Lebanon	Kennedy	1887	13.
	ETE	1920	NE.
Carex scirpoidea M	ichx.		
Franconia	Jakes	1827	G.
	Plake	1365	G.
	Fernald, Smiley	1915	4. v. ·
	Tackerman		BS.
Carex umbellata do	hkuhr.		
Holderness	Fernald	1915	WE.
Lebanon	Fernald, Hunnewell	1920	100
Carex umbellata Sc	hkuhr., var. breviostris Boot	t.	
Franconia	Faxon	1390	** *** •
Ashland	Fernald	1916	*1*



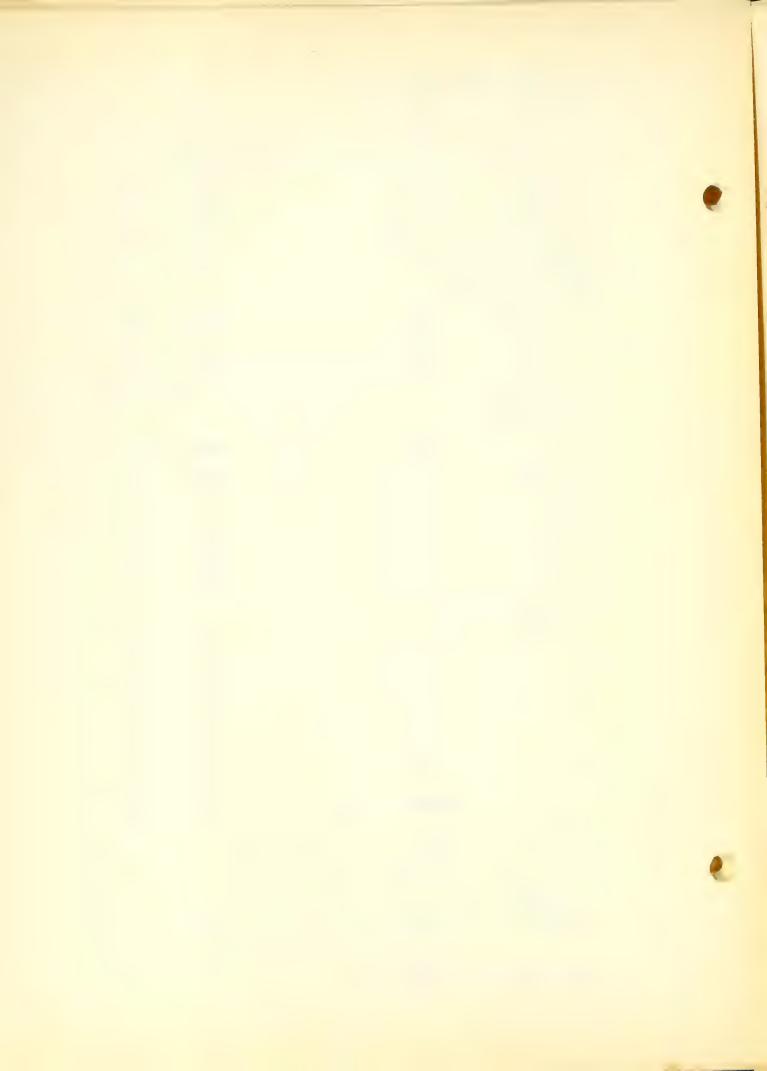
Carex	defl	exa	Hornem.
-------	------	-----	---------

Bethlehem	"m.Boott	1355	g.
Pranconia	Pringle	1878	BS.
	Faxon	1893,1896	1111
	Fernald, Sm	1915	MR.
Carex albicans Wil	ld.		
Franconia	Faxon	1893	200
Lebanon	Zennedy	1887,1399	G.,NE.
	Pease	1907	8.5 m ⊕
	(3 F) 1	1920	116.
Carex communis Bai	ley.		
Bethlehem	Conant		e **
Franconia	"m.Boott	1355	G.
	Faxon	1338	. 900
Lincoln	Kennedy	1838	•
	a.Boott	1355	**
	Fernald	1913	
Woodstock	Fernald	1915	NE.
Holderness	Fernald	1715	WE.
Lebanon	Kennedy	1886,1337	a.,NL.
	PH	1920	ME.
Carex novae-anglia	e chwein.		
Franconia	"m.Boott	1370	118.
	Faxon	1891,1893,1895,1397	m.
Lincoln	Fernald	1915	MI.
Benton	Williams	1907	E.
arren	Knowlton	1919	5 * # + # ●
Lorchester	Pease	1 726	NE.
Holderness	Fernald	1915	"E.



Carex pennsylvanica Lam.

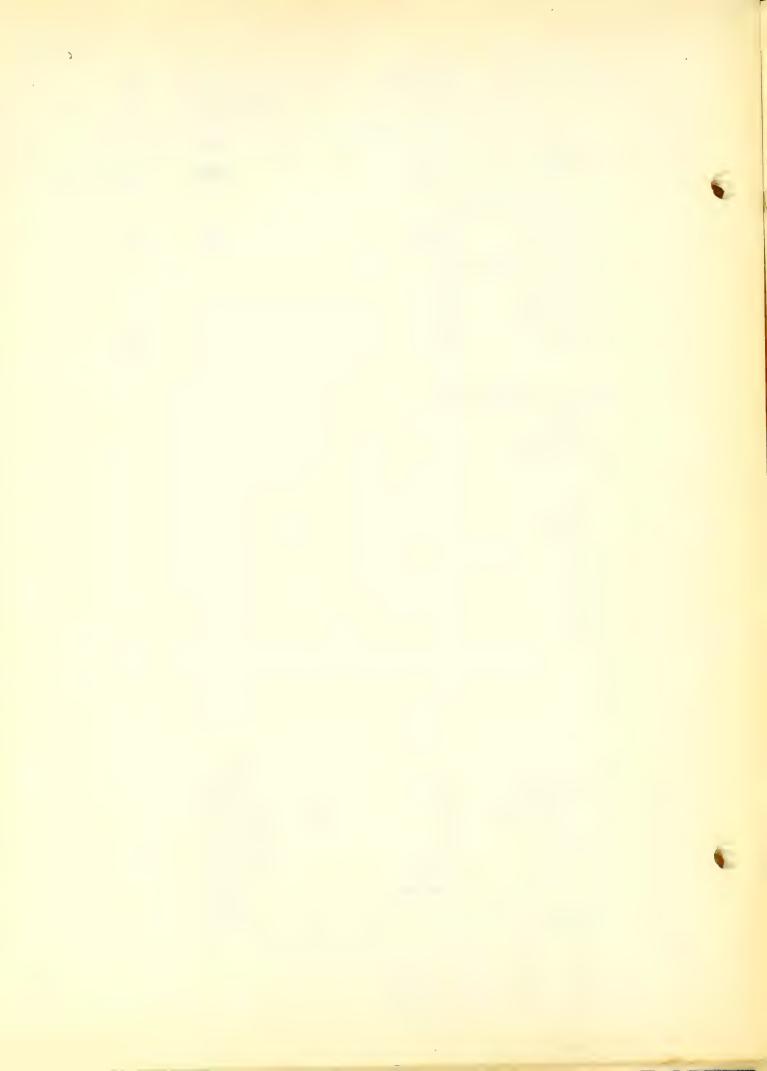
Lebanon	P#H	1920	TE.
Carex renneylvanics	Lam., var. 1 corm (111d.)	"ernale.	
Toodstock	Pernald	1215	•
Wolderness	Fernald	1915	** •
Ashland	Pernald	1916	₩7.
Carex pubescens Lah	nl.		
Bethlehen	Pease	10	•
Plymouth	Fernald	1915	•
Lebenon	Barrows Femorted by Jesus	("1.), ha	ve seen no erecimen.
Carex pallescens L.			
Lisbon	Faxon	1337	160
"oudstock	Fernald	1915	TH.
Benton	Williame	1907	11.5
*arren	Knowlton	1919	=.
lest anon	Kennedy	1391	er.
Carex paupercula III	lchx.		
Franconia	Hoar	1353	, •
	"m.Boott	1363	MT.
	Faxon	1337	3.
	Fuller	1390	NE.
	Williams	1394	T.
	Fernald, Smiley	1915	Œ.
	Oakes		3.
	Tuckerman		9.
Carex limosa L.			
Bethlehem	Wm.Boott	1855	3.



Franconia	'm.Boott	1865	·· 8.
	Гажэп	1887,1833	3.
	Fernald, Smiley	171°	•
Lisbon	Feron	1887	Tion Tion
Carex prasing sh	lenb.		
Lebanon	Tennedy	1837	* •
Carex pedunculata	wiuhl.		
Woodstock	Ferneld	1915	• 1
Lebanon	% ennedy	1896,1899	Th.,G.
	614	1,550	
Carex planterings	Lam.		
Hanover	*dmondson	1998	2 .
Carex platyphulls	Carey.		
Bath	Fease	1926	**************************************
Lebanon	Kennedy	1837	<i>i</i> •
Carex divitalis	illd.		
Hanover	Williams	1910	G.
Lebanon	RTH	1920	t core
Carex leptonervis	Fernald. (C.laxiflor	a, var.leptonervia	of Annual 1.)
Franconia	Faxon	1838	W.
Lincoln	"m.Boott	1355	3.
"oodstock	Fernald	1915	10.7
Holderness	Fernald	1915	NE.
Carex ormostachye	iegand. (C.laxiflor	a of Manual 42.)	
Franconia	Faxon	1888,1896	M.
Hansver	Ldmondson	1998	G.
Lebanon	BFH	1920	E.

^{1.} Fernald 1914 Rhod. 16 p.214

^{12.} Wiegand 1922 Phod. 24 p.196

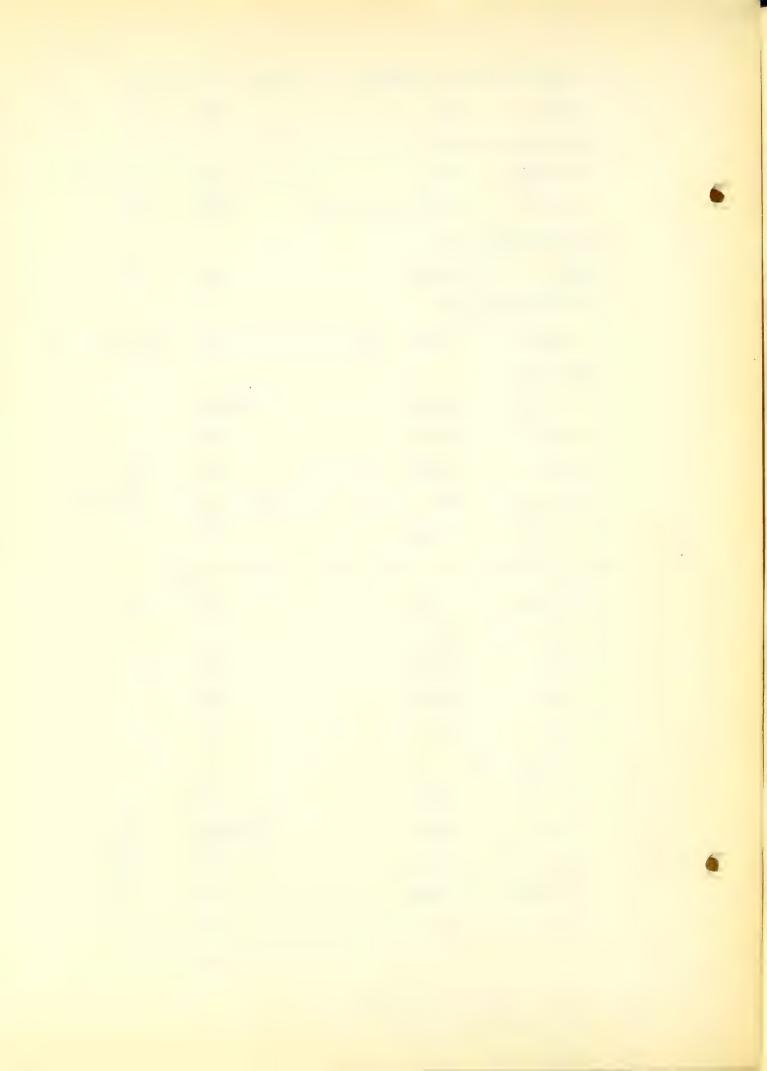


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Carex blanda Dewey. (C.lexiflora, var. blanda of Manual. (1.)
 Lebanon BFH
                                    1320
Carex concides Schkuhr.
 Holderness Faxon
                                    1236
                                           3777
Lebanon fernald, Hunnewell
                                     1929
                                            ME.
Carex grisea Wahlenb.
. Bath Fernald
                                     1917
                                            1177
Carex granularis whi.
  Lebanon Barrows Fenorted by Jesup, ("2.) no specimen seen.
Carex flava L.
                                1387,1389
 Liebon Faxon
 Enciald Knowlton
                                  1925
  Lebanon Fernald, Tunnewell 1927
                                            - 91
Carex cryptolepis Mack. (C.flava, var. elatior of Canual in part. 3.)
 entworth Villiams
                                    1703 3.
Carex Jederi Retz., var. numila (Cosson & Germain) Fernald.
 Franconia Um. Boott
                                     1361 0.
Carez longirostris Torr.
 Plymouth Fernald
                                     1775
                                           Ashland Fernald
                                     1916
                                            NE.
  Lebenon BFH
                                     1727
                                           4 17
Carex arctata Toots.
  Franconia Faxon
                                     1333
                                            Lisbon Faxon
                                 1338,1377
                                            ...
  Lincoln Fm.Boott
                                    1355
                                            . . . .
 Solderness Fernald
                                            .
                                    1915
  Lebanon
            - ease
                                     1997
                                            .
              Times.
                                     1727
                                            •
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^{1. &}quot;legand 1922 Thod. 24 p.194.

^{2.} Jesup 1391 Flora and Fauna 5.50.

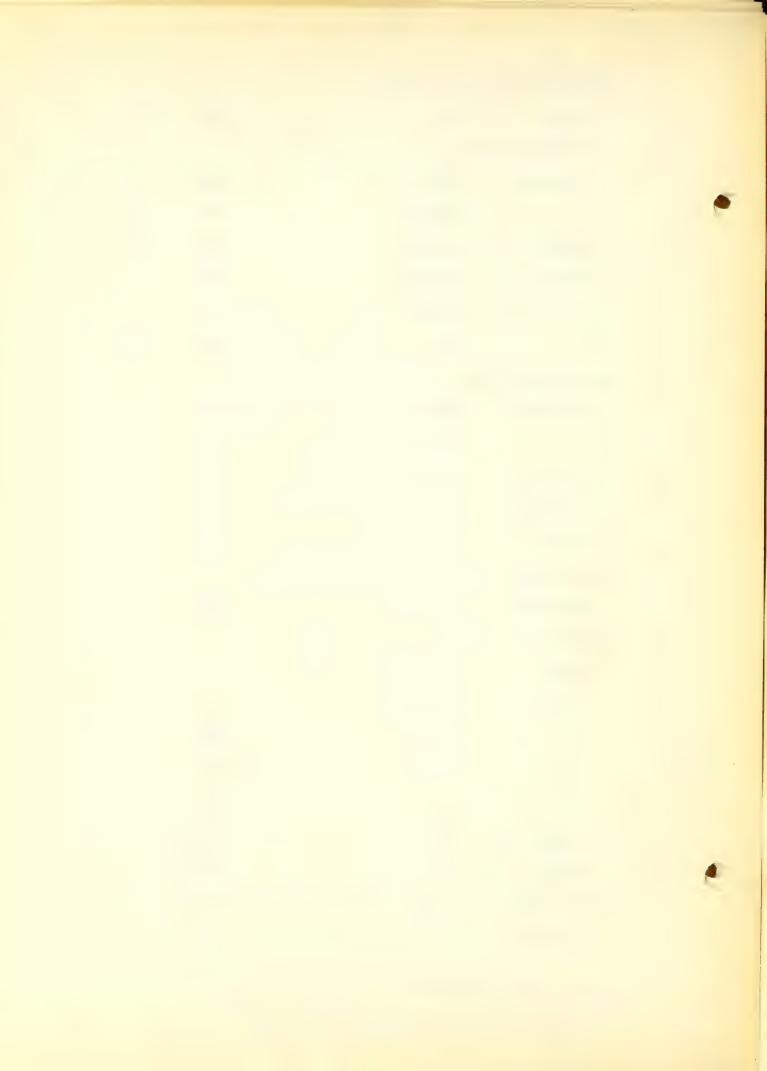
^{#3.} Mackenzie 1914 Torreya 14 p.157.



Carex Inciekernii	fewey (#1.)		
Hebron	B111	1907	
Carex debilis Fig	chr., vor. 1 adget	ciley	
Franconia	Taron	J 25 3	H.
	Kennedy	1801	•
Lincoln	" a. Poott	1955	•
Manover	"illiams	1113	•
Lebanon	Kennedy	1374	•
	n design	1920	n***
Carox debilie /10	chx., var. atrict	tior Failey.	
Pranconia	Pm. Boott	1 1 363	G.
	Fanon	1373	•
Lincoln	Fernald	1915	**
Toodstock	Perneld	1015	*
Benton	illiams	1 207	•
Tarez debilie id	hx., var. inter	ecta Sailev	
Tordatock	ernald	1905	· .
Carex acabreta	shwein.		
Dethlehen	Conent		<i>;</i> •
Lincoln	"a.Poott	1355	"; •
	Rennedy	1328	3.
	rernald	1915	ene en
	Tricg	2010	
Holderness	Fernald	1915	1.5=
Lebanon	PER	1920	
larex la locaroa	thrh. (%. filli	formis of annal. (2.)	
Rethlehem	Te xon	1073	110

^{1.} Lewey 18/6 Am. Jour. Sci. 2'nd Series 2 p.247.

^{2.} Kükenthal 1909 Pflanzenreich IV 20 p.747.



Carex Houghtonii	Torr.			
Franconia	Faxon		1888,1889	. , 19 .
Carex oliposnarma	ichx.			
Tethleham	Privale		1277	
	Fexon	1.377,	,1378,1379	· Ö.
Franconia	Faxon		1.301	se.
	: h.John		1912	mo (m × ve ∰
	Fernald,	Smiley	1315	
Lincoln	Fennedy		1371	12 100
(arex Pseudo-lype	erae I.			
Canson	Farrows	Reported by Jest	m((1.), no o	becimen seen.
Carex hystericine	auhl.			
Munroe	Fosse		1726	*****
Lebanon	Best		1929	•••
Carex lurida Pahl	enb.			
Bethlehem	St.John		1912	angr _e
Thornton	Pease		1903	*····. .a. •
Tranconia	illiame		1394	

Carex lurida fahlenb., ver. gracilis (Boott) Pailey.

Franconia 1m.Foott 1361 W.

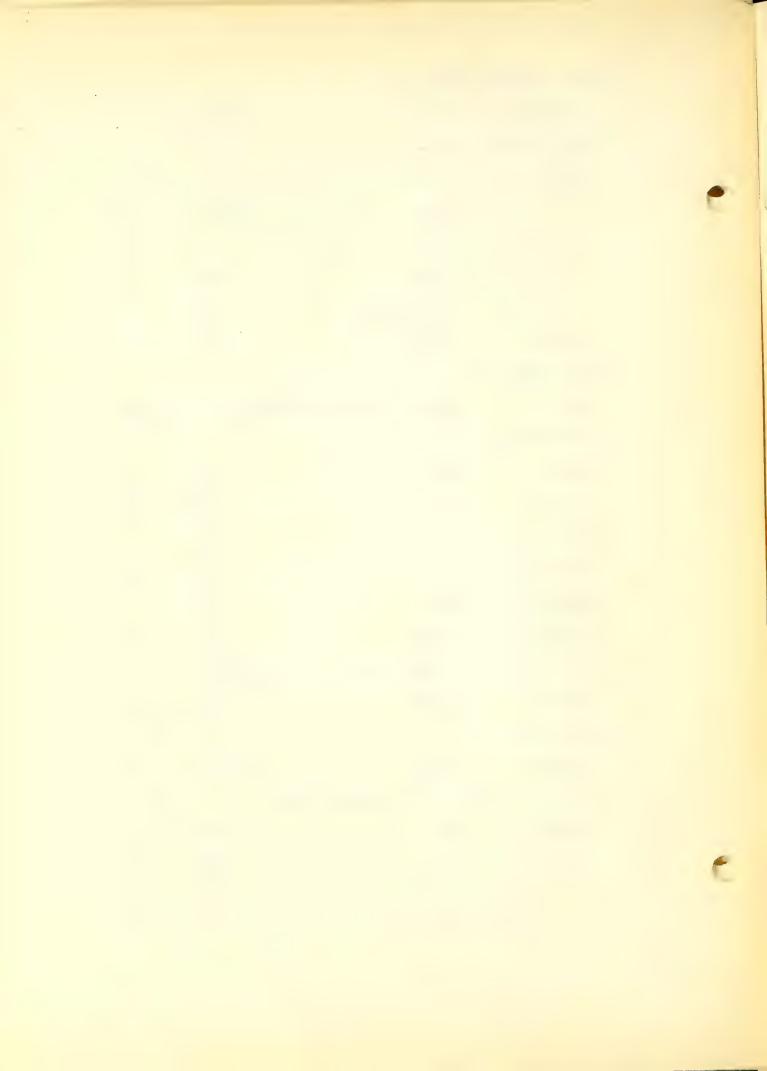
carex luvulina Luhl.

"entworth Williams 1908,1710 ., T.

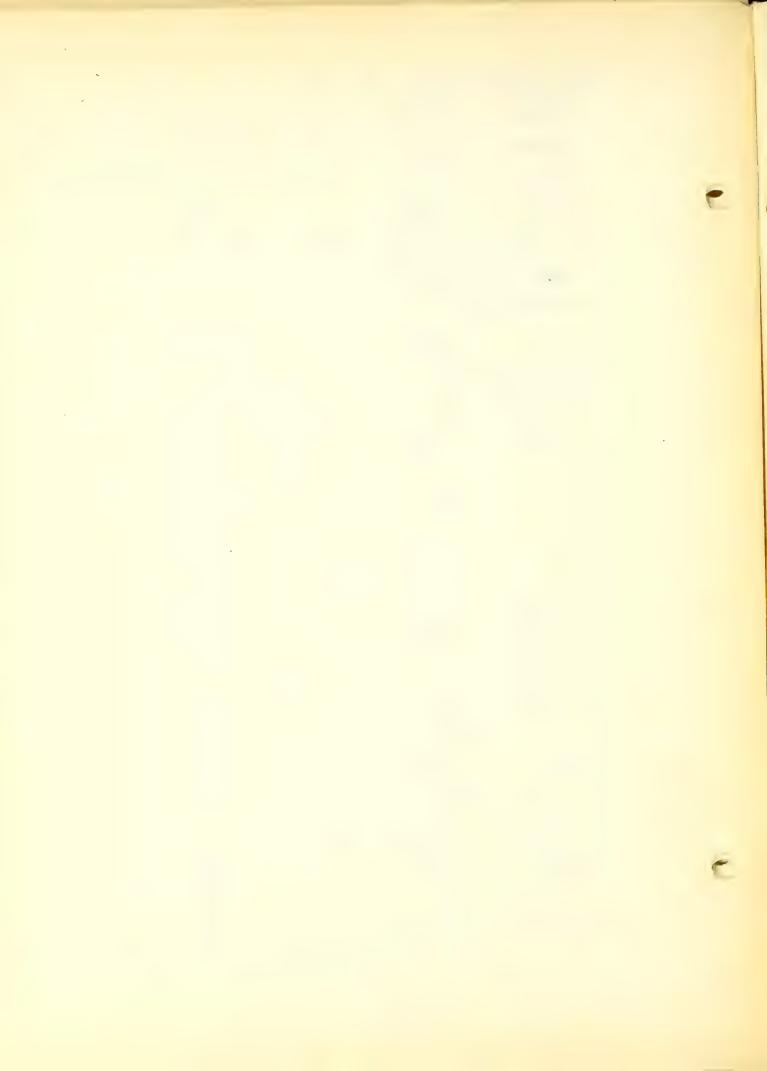
Carex lupulina Lihl., ver. pedunculata Iswey.

Bristol lich 1395 ...
Letanon Tennedy 1370 ...

^{1.} Jesup Flora and Fauna p.51. 1391.



Carex Intumescens	Radre.		
Franconia	St.John	1312	
oodstock	*ernald	1715	ME.
ar: en	illians	1.07	9.
Lebanon	en ledy	1 37	
Sarez Inhumescens	radge., var. Fernaldii bailey.	,	
Lincoln	"ernald	1715	Ë.
Carex Colliculata	L.		
Canaan	Inglow	1718	10.
Carex "ichauxiana	Poéti.		
Fet'lehon	Faron	1677	
Franconia	'm.Foott	1061	Э,
	Puller	1870	₩.
	Faxon	1991	9.
	.t.Iohn	1912	7071.
	Ternald, Smiley	1015	W.
oolstock	Vernald	1915	5.
aterville	m.Poott	1860	π.
Carex vesicaria L	•		
renconia	logr	1953	1.
	Favon	1337	· 15.
Hanover	filitama	1910	•
Lebenon	iff	1920	P.
Carex vesicaria L	., var. monile Fernald		
Franconia	Tm. Roott	1355	•
	*axon	1386	
Molderness	Paxon	1336	¥.



Carex vesicoria L., ver. jejuna Fernald.

Tranconia Taxon 1337 3.

Cares rostrata tokea.

ethlehem "syon".

Franconia "m.Poott 1355 T.

. "axon 1879,1390 "...3.

Puller 1993 11.

"e mald, Smilev 1915 "".

Thorsau.

Carex rostrate tokes., ver. utriculata (Boott) Bailev.

Torn 3.

Franconia Tavon 1979 4.

Carer bullata chkurr.

anash arrows Reported by Jesun(1.), no specimen seen.

Carex Tuckermant Lewey.

Tethlehem Coment. 1878 IE.

Cristal Fuller 1899 II.

Lebendon Fennedy 1890

OFFER APALES

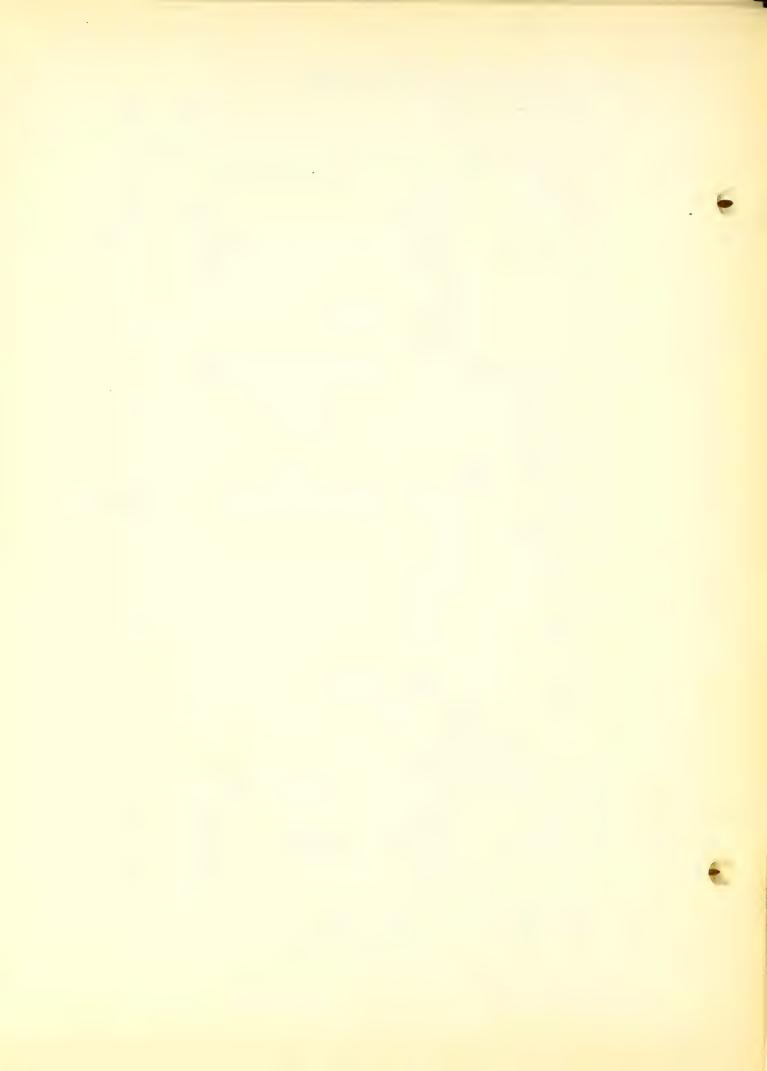
FAMILY ARACEAE

AMISATUA Martius.

Arismema triphvllum (L.)Schott. Jack-In-The-Pulpit

Plymouth	Knowlton	1915	\$ \$2.
Holderness	Gundersen, Lowenstein	1914	18.
Lebanon	BFH	1920	7

[&]quot;1. Jesur 1871 Thora and Tauna p.49.



arivaema itemardeonii Pritton ("1.)

Lebanon

1:23

THAT DIA TRE. Arrow true

Peltandra virginica (I.) Kunth.

Wolderness Jundersen, Jovenstein 1914 .

Josup "enorted by Josup("2.), no specimen seen. Canan

Atwell Peported by Jesus ("2.), no speci on seen. 'nfield

AUDRUS L. Sweet Flag

acoma (glaure L.

Lol non ernald, Hunnewell

1920

FAMILY LEWNACEAE

La L. Duckweed

Lemns Tinor L.

Lebanon

1430 ...

Femarica by Jesup (12.), from Hanover and Enfield, but no enecimens seen.

ORDER XY" IDALES

FAMILY EFICCAULACEAE

ERIOCAULOW (Gronov.)L. Pinewort

Eriocculon septengulare With. (B. articulatum of Janual in part. 3.)

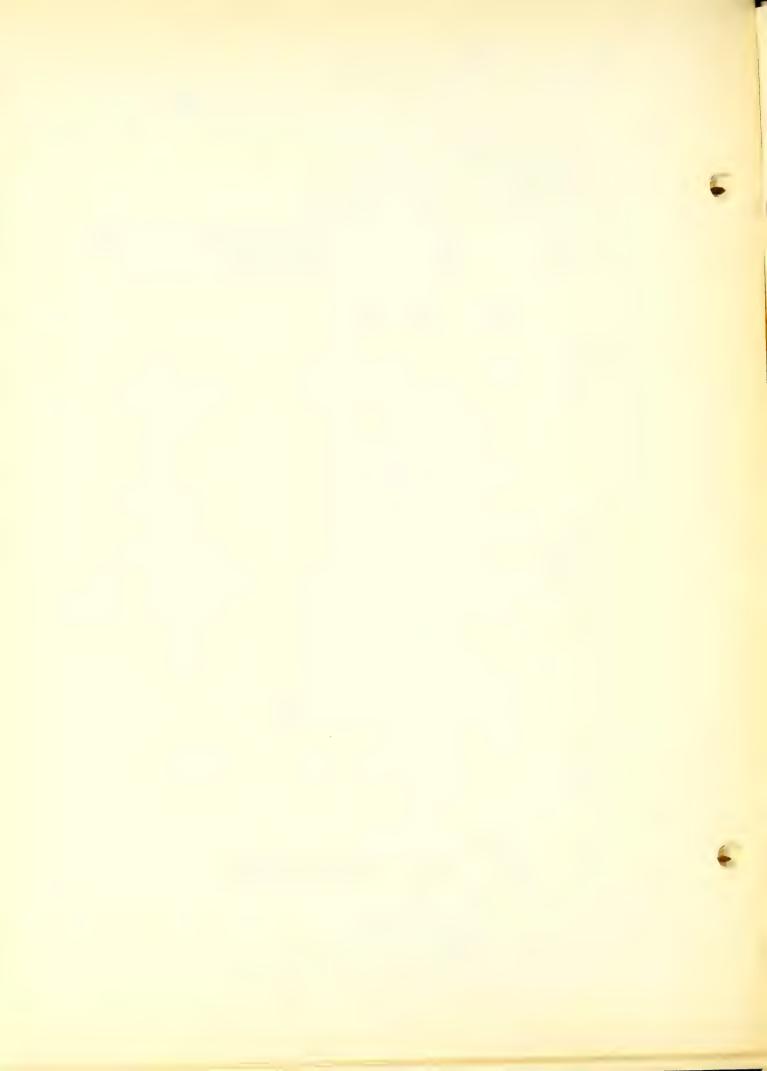
Canaen inclow

1913

mit ille er ser er velerfie

YYRIC (Gronov.)L. Yellow-Eyed Grass

- "1. Fernald 1/21 Thod. 23 p.136.
- #2. Jeeup 1891 Flora and Fauna p.47.
- #3. Robinson & Fernald 1909 Phod. 11 p.40.



Wyris montana "ies.

Franconia Fuller 1370

Lincoln Kennedy 1891

Cansan Feborted by Jesup("1.), no specimen seen.

Myris torta (a. (M. flexuosa of Manual. C.)

Franconia Faxon 1800 7.

FAMILY PONTEDURIAGEAT

PONTEDERIA L. Pickerel-Weed

Pontederia cor ata L.

Tentworth Tillians 1773

ORIEP LILIALES

FAMILY JINCACEAE

JUNCUS (Tourn.)L. Rush.

June se bufoni se li.

Lebanon Kennedy 1777 -

Juneus trifidue L.

Franconia Thoreau 1893 W.

1367 1.

Fernald, Smiley 1915 .

Conant

Renton Williams 1878, 1907 C., YD.

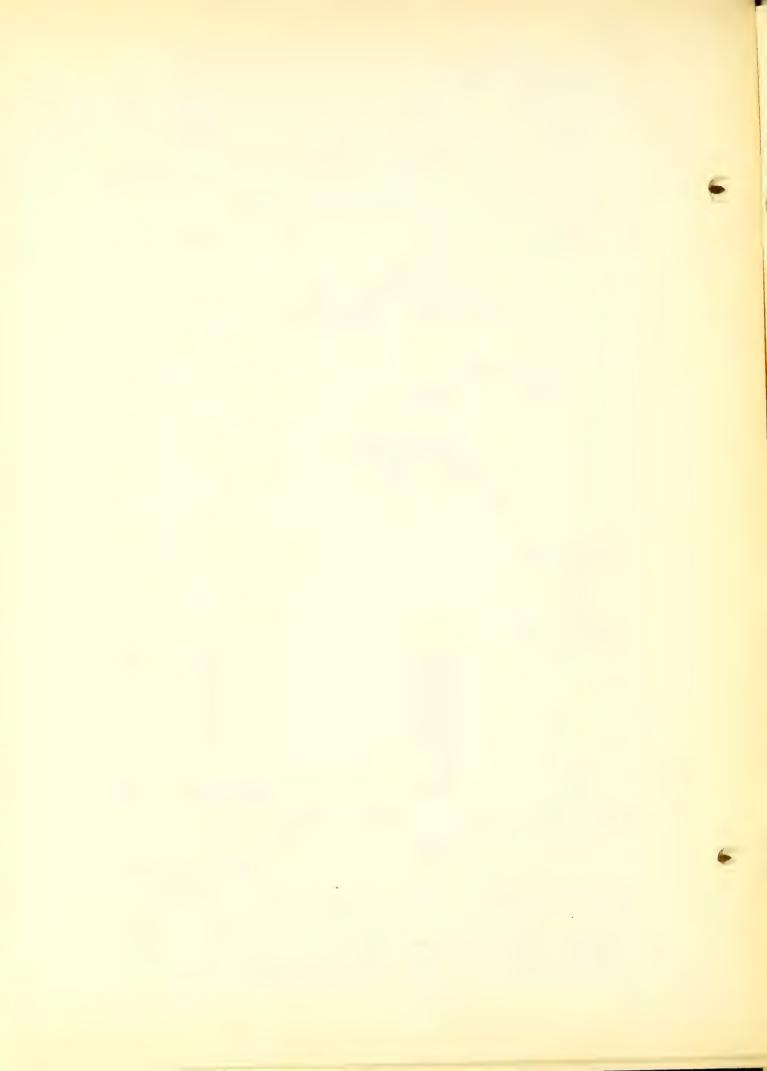
Juncie macer .. T. Fray (J. tenuis of largel. J.)

Tarren *illians 1908,1710 **.,3.

11. Jesup 1391 Flora and Fauna p.46.

2. V.torta 1816 .flemuosa 1360

#3. Fernald 1930 Jour. of Bot. Brit. & For. 1816 p. 364.

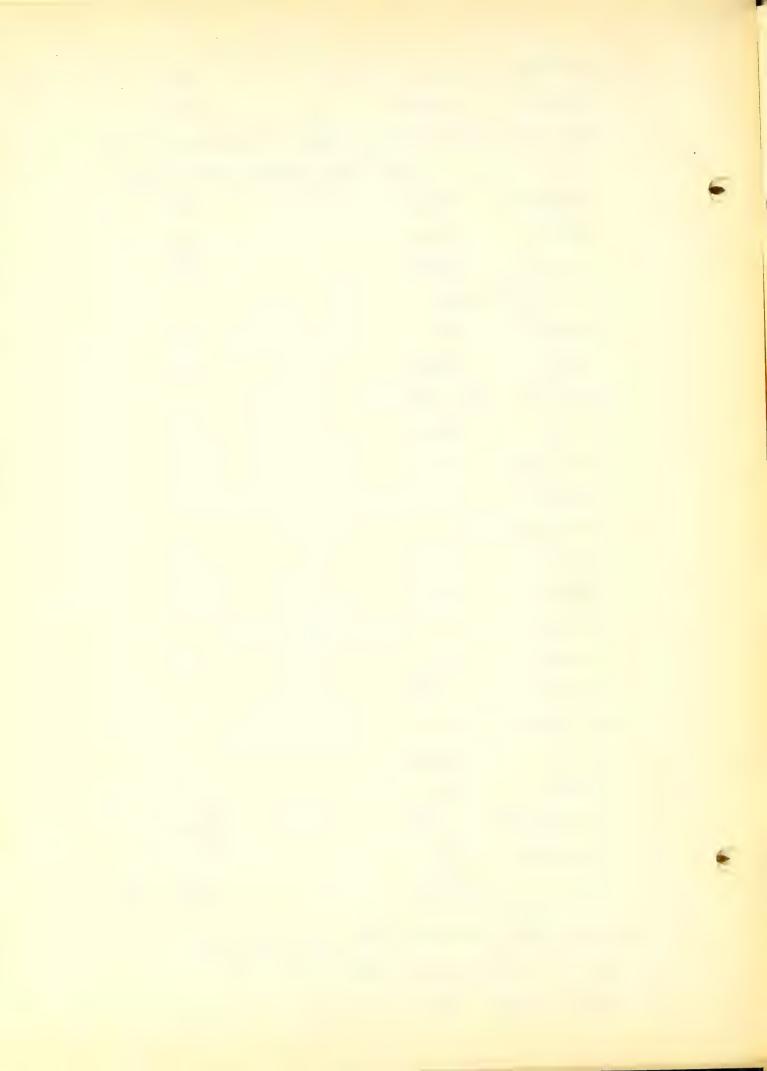


Materville	are	1905	445
Benton	Tilliams	1908	7.
Juncus macer S	rav., var. 'illiamsii (Ternald)"	ernald.	
	(J.tenuis var. "illiamsti of	enual. "	1.)
Frenconia	Konnedy	1907	7.
Farren	"illiame	1903	•
"polaville	Williams	1903	11
J move sileyi Wi	egend.		
Monroe	Pease	1926	****
Reth	Fernald	1917	*****
Juncue Freenci in	res & Tuckerm.		
arren	Filliams	1017	**
Wer Rampton	Porbes	1774	
Waverhill	Feported by Jesup (12.), no spe	einen seem	7
Juncus filiformis	L.		
Franconia	ernald	1915	y tër r @
Unfield	Kennedy	1920	S. A. And
Juneus offueus !.	, var. decipiens Buchenau ("3.)		
Woodstock	Fernald	1915	2 / 4
Plymouth	nowl ton	1055	9
Juncus effucus L.	, var. solutus Fernald ? "iscand	(-3.)	
Werren	"illiams	1909	•
Vlvzouth	"nowlton	1915	1 '7'
Junous effusus !	, var. Pylaei (Laharne) Permald 1	"iena d.	("3.)
Waterville	Vare	1,005	-
Terren	Williams	1908	TO.

^{#1.} Fernald 1930 Jour. of Bot. Brit. & For. #816 p.364.

^{12.} Jesup 1391 Flora & Fauna p.46.

^{#3.} Fernald & Wiegand 1910 Rhod. 12 p.81.



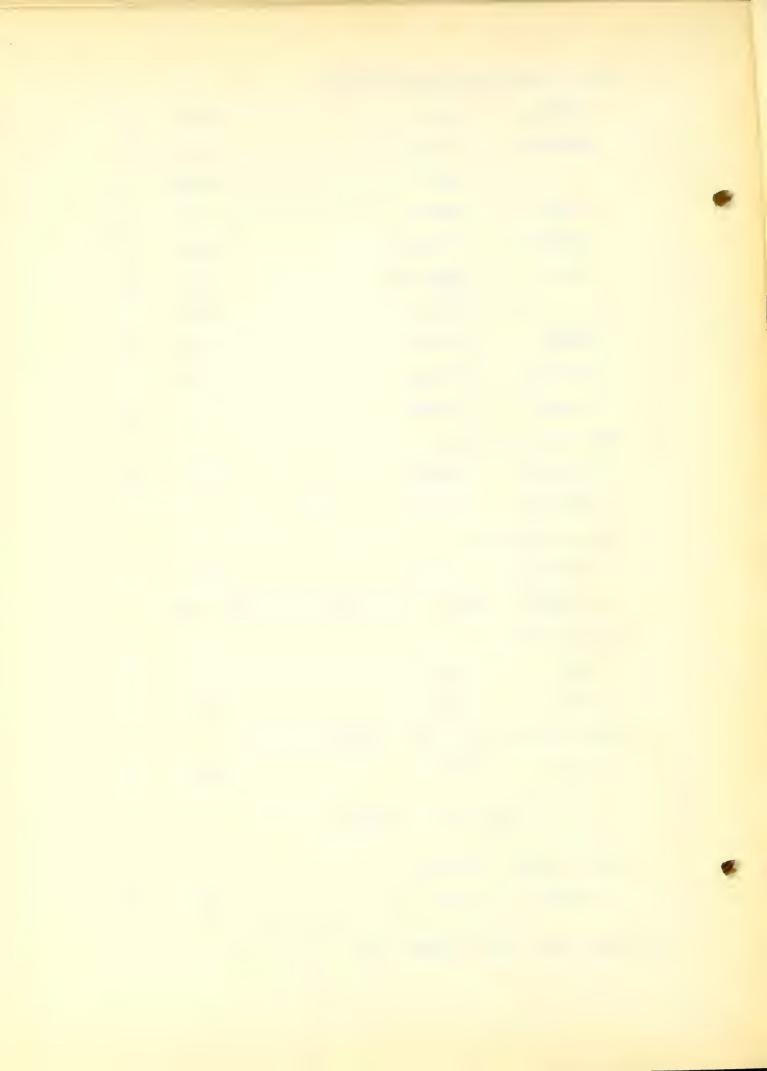
Juneus brevicaud	atus (Engelm.)Fernald.		
Bethlehem	Faxon	1377	T a
ranconia	Wm.Boott	1067	•
	Fuller	1320	و شو ، .
Lincoln	henredy	1391	7 4
Waterville	"a.Boott	1900	~
Benton	Igyleston	1898	•
	Williams	1903	
Warren	Williams	1903	n,♥ enr ●
@entworth	Williams	1708	
Plyzouth	inowl bon	1925	ti.
Juneus canadonsi	5 J. 12y.		
daver'ill	Fernald	1917	M.
Tentworth	Williams	1770	
June 18 pelocarpa	B Mey.		
Westworth	Illiams	1908	
Raported by 1	esup (fl.) from Enfield, -	o enection seco	•
Juncus articulat	in L.		
onros	76330	1326	- T-
Bath	Fernald	1917	m.
Juneus articulat	is L., var. obtusatus Enge	lm.	
Lebsnon	F0950	1901	~**
LJZ'	ILA EC. Wood Rush		

1237

11. Jesup 1391 Flora & Fauna p.46.

Luzzla saltuensia Fernald.

Franconia Faxon



27827	Reported by Jesup('1.), no specimen seen.			
Hanower	French Leparted by Tecap(1.), we escimen	scen.	
Lebanon	ennody	1997,1995	1	
	7 ease	1,777		
	ermald, Tunnewell	1723	-	
huzula pervictora	(hrh.) lesv.			
Tretconia	Tm. Scott ernald, Smiley Faxon ennedy	1963 1915 1392		
Benton	Tilliams	1907		
Lugula onicate (1	,)::.			
Valuoonia	Wernald, miley	1915		
Panton	"eported by Jesup("1.), 1	o apecimen stor.		
Luzula compeetris	(L.) var. multiflora	Theh. Malal.		
"obastock	Ternald	2.72	e)	
'a' ville	- uchaen	1012	•	
387 LAN	Tilliams	1907		
Leiman	D. H.	1929		

FAMILY LILIAGEAE

VIRATRUM (Tourn.)L. False Hellebore.

Veratrum viride lit. Indian Poke

Franconia	Fernald	1915	
hollernes:	landersen, Lowenstein	2 321	•

UVULARIA L. Bellwort

Jvuleria sessilifolia L. (Dakesis sessilifolia of local fo.)

^{2.} Fiegand & Sames ornell 'niv.Agr.Exp.Sta. Memoir 92 p.144.



Woodstock	Fernald	1915	*		
Tarren	"illiams	1907	C.		
Plymouth	Inowlton	1015	vi#.		
Holdernese	Fundersen, Lowenstein	1914	AT ET		
Lebanon	Maskins	1915	* * *		
	*ernald, Munnevell	1920	=0.		
ALI IUM	(Tourn.)L. Onion.				
Allium tricoccum	Ait. Wild Leek				
Lebanon	Kennedy	1890	177		
Allium Choenopra	eum L., var. eibiricum (U.)Hartm.			
Beth	Pease	1926	****		
HEMEROCALLIS L. Uay Lily.					
Hemerocallis fulv	a L.	•			
Tarren	illiame	1978	÷.		
LILIUM	(Tourn.)L. Lily				
Lilium philadelphicum L. Wood Lily.					
Lyman	Pease	1926	m(.		
arron	"illiams	1907,1913	eg uz ⊕		
Holderness	Sundersen, Lowenstein	1314			
Lilium philadelphicum L., forma flaviflorum "illiame. ("1.)					
"arren	lilliams	1913	j		

ERYTHRONIUM L. Dog's-Tooth Violet

1727

1. Filliame 1913 Phod. 15 p.218.

'ebanon BTH

Lilium canadense L. Wild Yellow Lily.



Crythronium ame	ricanum der. Yellow Adde	er's Pongae.	
Franconia	Faxon	1837,1339	0.,70
Lebanon	"ennedy	1875	.
	fernald, Aunnewell	1920	
CLI	TT MIA Paf.		
Clintonia borea	lis (Ait.)Ref.		
Francônia	Fernald, Smiley	1915	~ (•
Lincoln			3.
Benton	Vlint	1271	ŗ.
	illiams	1907	G.
Lebanon	Vennedy	1387	TY .
	BFH	1920	177
Sm.II	LAUINA Desf. False Solo	omon's Seal.	
Smilacina racem	osa (L.)Desf. False Spik	cenard.	
Farren	Williams	1908	G.
Plymouth	Knowlton	1915	NE.
Holderness	Sundersen, Lowenstein	1914	***
Lebanon	Ha	1920	NE.
emilacina stella	ata (L.)Lesf.		
Ashland	Fernald	1916	
Hanover	itemart	1909	G.
	Hackine	1915	W.
Lebanon	DFH	1920	(17)
Smilecine trifo	lia (L.)Desf.		
Franconia	Faxon	1836	NE.
	Hoar	1838	1117.
Woodstock	Faxon	1886	770.

1908

1915

G.

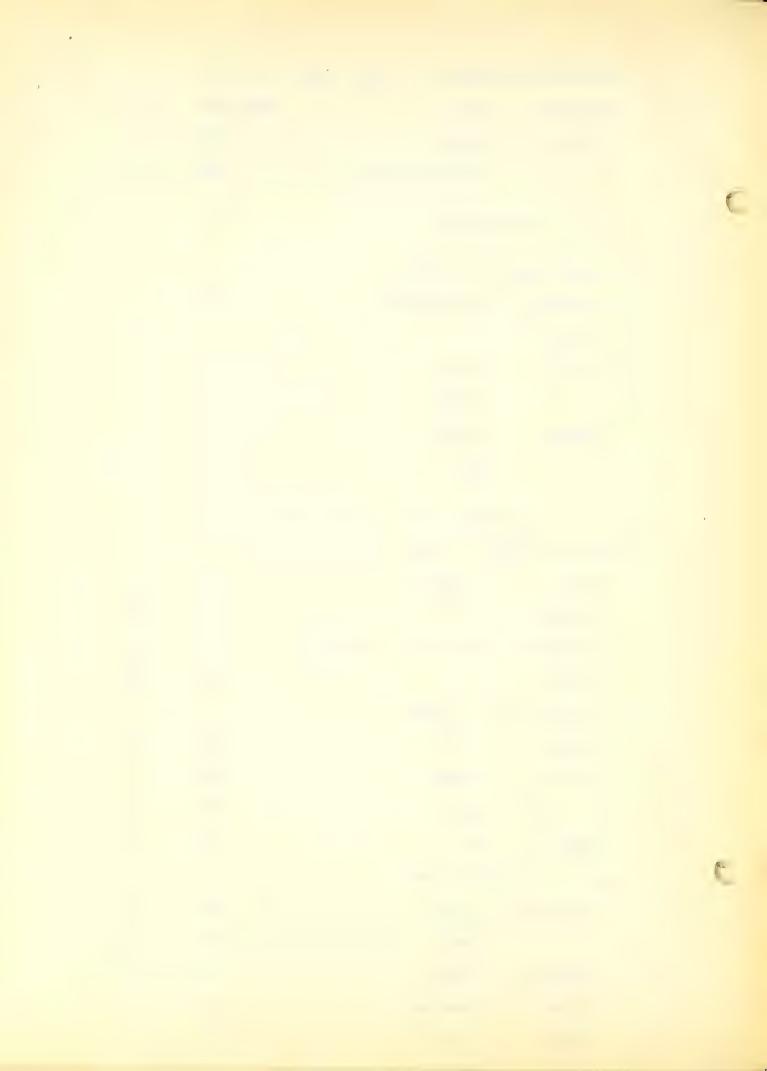
NE.

Hanover

Lebanon

Edmondson

Haskins



THEMM ("eber in) liggers.

Maianthonum canadense leaf.

Holdernees	Nundersen, Lowenstein	3971	ill.
Lebenon	BPH	1999	MR.

STR' SIDEWN Michx. Twisted-stalk.

ttrentopus amplexifolius (L.) NC.

Bethlehem	Fexon	1879	ø.
Franconia	Form	1892	MIL.
	Fernald	1915	
Lincoln	"m.Boott	1655	1G •
Benton	"illiams	1907	72.

Penorted by Jesup(11.) from Groton and Enfield, but no specimens seen.

Streptopus roseus Michr.

Franconia	Fernald	1915	NF.
Lincoln	"m.Boott	1.855	9.
"oodetock	Fernal d	1915	ME.
"aterville	Merrill	1853	âm.
Benton	"illiams	1907	G.
Tarren	Enowlton	1919	NE.
Hol derness	Sundersen, Lowenstein	1914	. 0
	Fernald	1915	1,0
Lebanon	Kennedy	1886,1887	G.
	Haskins	1915	* **
	Fernald, Hunnewell	1920	NE.

POLYNDNAT'M (Tourn.)Hill. Folomon's Coal.



Folygonatum biflorum ("alt.) Will.

Boodstock	Fornald	1915 .	771.
Flymouth	Ynowlton	5013	75.
Hanover	askins	1915	ms.

and the Manney .) I. Indian Gucumber-Nort.

Wedeola virginianal.

Franconia	Taxon	1895	Ž •
	Shaw)rr 2. •
Woodstock	Fernald	1915	1.
aterville	uchman	1912	25.
Flymouth	Knowlton	1915	1/1
Bolderness	Sundersen, Lowenstein	1914	1877
Bristol	Rich	1893	0.
Lebenon	3 H	1920	•

TRILLIUM L.

Trillium erectum L.

Lincoln

Wm. Boott

	Lincoln	Tm.Boott	1855	8.
	aterville	Herrill	1853	TF.
	Hanover	Hickard	196	177
		Haskins	1915	34
	Lebanon	Pernald, Nunnewell	1020	^]F' •
Ti	rillium cernuum	L.		
	Hanover	Hitchcock	1883	÷ •
	Lebanon	Kennedy	1837	1117.9
	rillium undulatu	m 111d.		
	Franconia	Wm.Boott	1855	9.

1855

7 .



Woodstock	Fernald	1915	, d •
Holderness	Gundersen, Lowenstein	1914	37.
Bridsewater	Horner		•
Hanover	Hitchcock	1937	n.
Lebanon	RTM	1720	. ,

Sullay (Tourn.)L. Green Brier.

milax herbacea L.

Plymouth	Fernald	1915	₩.g
Tolderness	undersen, Lowenstein	1714	1 %
Lebanon	Kennedy	1377	C.
	fernald, Munnewell	1727	W

PAULTA THEBACTAR

TTTS (fourn.)L.

Iris versicolor L.

arren	Filliams	1713	• * * * * •
Holdernees	Gundersen, Lowenstein	1914	×1
Lebanon	977	1220	21

MCYMI WHIM h. Plue-Ryed Trass.

Sisyrinchium angustifolium Mill.

Tranconia	Faxon	1002,1095,1007	a.,w.
Lincoln	Fernald	1915	17 °
Holderness	Sundersen, Lowenstein	1914	* * •
Lebenon	1 8783	1727	



ORITE OFSTITUALTS

FA THY FOHIDA 145

OYPRIPELIUM L. Lady's Slipper.

Cyprinodium orietinum H. Br. Ram's Head Lady's Clinner.

Lyme Reported by Jesus (1.), no specimen sern.

Bridgewater Tore 1991 PS.

Manaver agleston 1333 C.

yprinedium parviflorum Salieb., var. pubescene (Tilld.) might.

Yellow badw's Flipper

Lebanon Tennedy 1390 T.

Hanover Penorted by Jesun("1.), no specimen seen.

Cyprinedium reginae "alt. (C.hirsutum of Manual 2.) Showy Lady's Slipper.

Reported by Jesus ("1.), from Manover and Lebanon, no specimens seen.

Penarted by Schweinfurth("3.) from Campton, no specimen seen.

Cypripedium acaule Ait. Stemless Lady's Slipper.

Franconia	Taron	1885,1933	•
	Ahler, Russell	1717	*
Lebanon	STY, Maton	1920	•,3•

OFFICE (Fourn.)L.

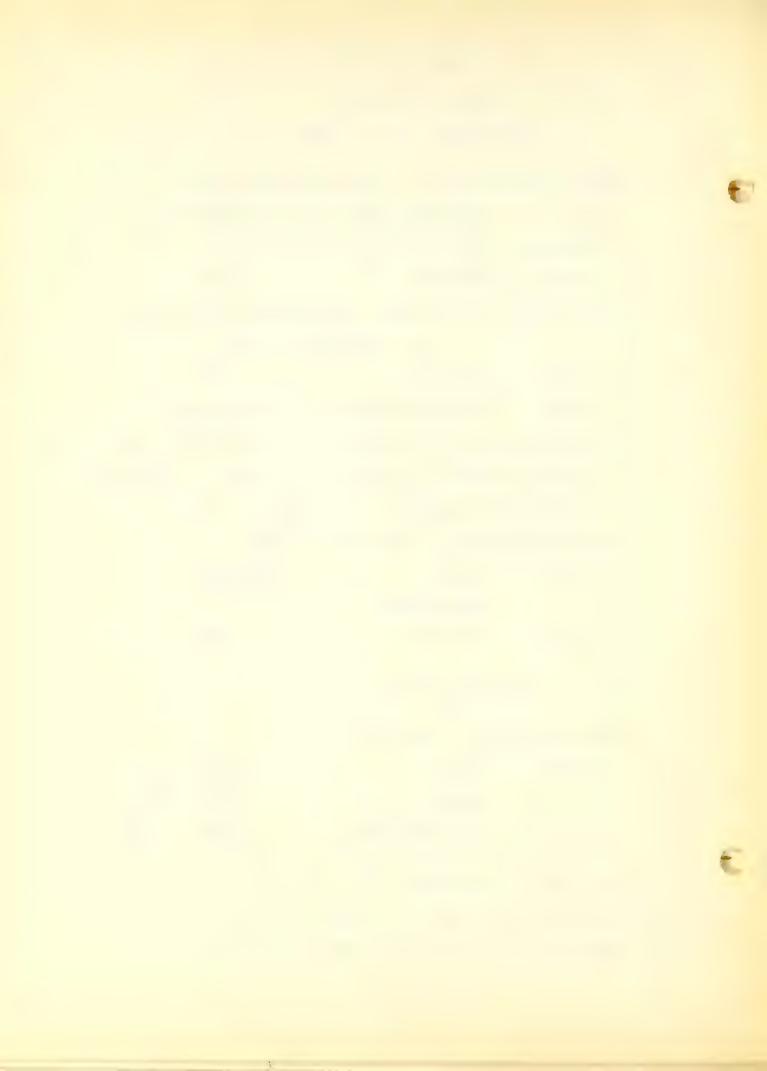
Orchis spectabilis L. Showy Orchis.

Lebanon	Tennedy	1992	S.
	Hervey	1916	20
	Fernald, Hunnewell	1929	^ •

[&]quot;1. Jesur 1391 Flora & Fauna p. 44.

^{72.} Schweinfurth 1025 Rhod. 27 p.107.

f3. Schweinfurth 1925 Rhod. 27 p. 107.



HABENARIA Willd. Fringed Orchis.

Wahanania wint di	a II \ Dr war I wasteste	Fruit Milmon	(ii brooteste
	al, is part. [1.]	f mure harme.	(11000000000000000000000000000000000000
91 - 200	mag so that to Log		
Franconia	Faxon	1379	G.
	Shaw		3.
incoln	"ennedy	1371	7.
Terren	filliams	1977	G.
Habenaria hynerh	orea (L.) R.Br.		
Lebanon	ennedy	1370	9.
	Haskins	1915	Tra
Hebenaria dilata	ta (Purch) Trav.		
Franconia	"ussell, Ahler	1917	
	Shaw		17.
Toodetock	Flint	1371	****
Holderness	G ndersen, Lowenstein	1914	** 52 •
Hanover	Reported by Jesup(#2.), n	o specimen se	en.
Habenaria clavel	late (Michx.) Pereng.		
Franconia	fackermen		-
Lincoln	im. Soott	2 477	2
Holderness	Bundersen Lowenstein	1914	254

Holdernese	Bundersen, Lowenstein	1914	•
Hebenaria obtusata	(Pursh) ichards.		
Bethlehem	Pease	1 218	75.
Franconia	Paller	1370	HH.
	Collins, Thornton	1.101	
	Fernald, Fmiley	1)15	•
1 eterville	ere	13 5	

^{1.} Fernald 1926 Ahod. 28 p. 172.

^{2.} Jesus 1391 Flora & Fauna p. 43.



Halenaria Hookeri Corr.

Franconia	rayon	1931,1392	TF., G.
	Taves	1,773	***
Lincoln	*ernald	1915	YE.
Lisbon	nell	1775	3.
%entworth	illiams	1,910	RE.
Nol derness	Taxon	1386	ME.
	Jundersen, Lowenstein	1914	MT.
	ornal d	1915	MH.
Lebany	1,0,0	1983	W1.
	WEG	1 720	a.

Reported by Jesup([1.] from Lyme and Hanover, no specimens seen.

Habenaria orbiculata (Fursh) Torr.

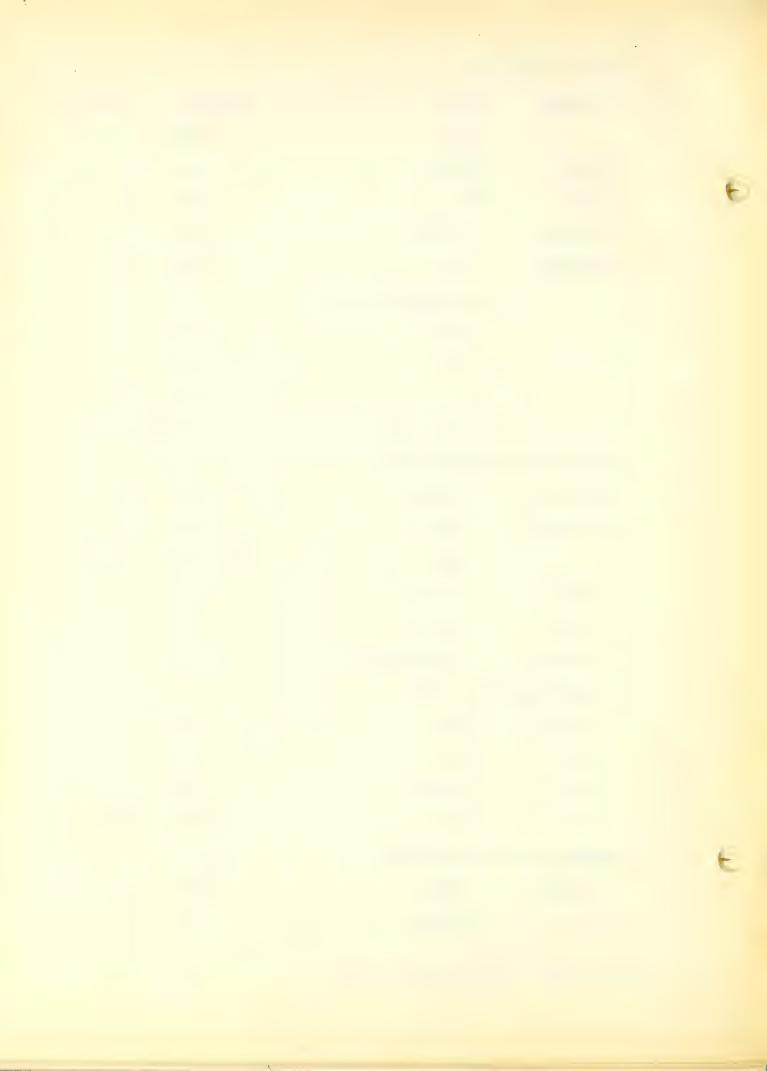
Rethlehem	illiams	1894	×) ***
Franconia	. Faxon	1338	3.
	Faxon	1891,1895	TE.,G.
Banton	illiama	1.907	NE.
"arren	Tilliems	1907	G.
Holderness	Fundersen, Lowenstein	1 714	** *
Habenaria macron	hylla Coldie.		
Franconia	Shaw	1917	
Liebon	Wall	1903	T .
Parren	illiams	1933	
Letanon	Hervey	1716	2.4
Habenaria lacera	(.ichx.)R.9r.		
'oedstock	Fernald	1915	100

1910

#1. Jesup 1871 Flora & Fauna p. 43.

Filliams

Warren



Holderness	Bundersen, Lovemetein	1914	7) 7
	lione	2016	95 ty
Lehenon	ennedr	1235,1297	o., w.
	Hervey	371€	•
Ha enaria payes	des (L.) Lw.		
Plermont	illians	1917	7
Tentmorth	illiane	1913	^ 12 ₁
Haldernese	Tone	1716	100
helanor	Hervey	1917	128.
Habenaria finbr	ista (11t.) Fr.		
hethlehen	Colline	1271	•
Franconia	10 to \$2.		70 7 •
tincoln	Favon	1005	***
Soodstock	fernald	1018	TI.
Urford	illiams	1907	1.
Plymouth	Sargent		***
Bristol	Horner		NE.
Letanon	lennedy	190	•

FJGGT: Tuse.

Pogonia ophicalossoides (L.)Ker.

Franconia	Lhaw		3,
Holdernese	undersen, Lowenstein	1914	•
Hanover	Penorted by Jesup("1.), no	epecimen	seen.
Canaan	Reported by Jesup(#1.), no	specimen	seen.
Snfield	Kennedy	1890	. · · · · · · · · · · · · · · · · · · ·

11. Jesup 1391 Flora & Fauna p. 43.



AFTHUSA (Gronov.)L.

Arethusa bulbosa L.

Hanover	Rugglee		G.
Lisbon	exon	1337	U.

Fenorted from : anaan by Jesus ("1.), no eresisen seen.

THE MINI Michard. Lady's Tresics.

opiranthes racilis (Birel.) Back.

	Flymouth	Fernald	1915	1 W.
	Holderness	Gundersen, Lowenstein	1)13	11.
	Hanover	illiams	1910	=.
	Lebanon	L. 1.I.	1885	,***
8.0	piranthes carma	(L.) ichard.		
	ranconia	² nxon	1375	2.
	1)lderness	Jundersen, Lowenstein	171	
10	birecthes comen	zofflane Chem.		
	Francoila	Faxon	1.371	•
	i i shun	inns	1377	7 4
	Churnton	20850	1 703	11.
	'ster-illa	ashnan	1912	n.

HOMYENA R.Br. (Evipactis of Manual 2.)

Goodyera renens R. r., var. ophioides (Perneld) A. L. aton.

(pipactis repens of danual (2.)

Bethlehem Collins 1391 ...

1. Jesus 1891 "lora & Fauna s. 47.

12. Go dyera now the name in general uss



Franconia	"e xon	1895,1897	G., WB.
1 933 84 3612	: ussell	3 070	0.
Benton	"a."oott	1 355	G.
Letanon	ennedy	3 15 Jed	a.
Goodvers tesselets	Loid. (Enimactie tesse	lete of "emisl	71.)
Franconia	Faxon	5,1896,1397	11.
	Paxon	1825	(I.
oadstack	Fuerell	1320	G.
Thornton	. ease	اَ مَانَ ا	RE.
arren	Trow	1910	0.
entworth.	filltame	1,2110	9.
Holderness	buiderse , lovenstein	7716	**
Lebinon	ervey	1917	7.
Goodyers pulescens	. r. (pipactis pubes	cene of Tenusl	"1."
Nolderness	indersen, Lowenetein	1914	•
ใ ดให ทอก	Kennedy	1885,1895	W.,G.

LISTERA T. Fr. Twayblade.

Listera cordata(b.) . Tr.

Franconia	folling, Thornton	1891	•	
Paterville	Tare	1905	**************************************	
Penton	"lint Femorted by Jesup(2	.), no sme	cimen seen.	
Holdernees	Fernald	1915	NE.	
ipreliester	deondson	1203		

COTALLO PHITA (Heller) R. Br. Foral Root.

Corellorrhize trifide Chatelein.

Franconia Faxon 1387,1889,1899 3.,NE.

"1. Goodyera now in general use

2. Jesup 1891 Flora & Fauna p. 42.



Lincoln	ែកក្នុងតំប	1858	0.
	"ernel#	1018	
Solderness	arneld	1717	
Nor. svor	Tastins	1010	415
	Fickard	13'€	T .
Corellorrhize ma	culata Ref.		
ethlehma	ollins	1391	G.
Franconia	Mor, Sussell, Chaw	1317	• , 7 •
hoodstock	'essell	1976	•
	Ternald	1015	- 4
Hol derness	undersen, Lovenstein	1916	• 1.
Nersye"	eported by Jesup("1.), n	o specimen s	eec.
Labanon		1/33	₹.

" La Coland.

Malaxis unifolia Michx.

3-thlehem	ollins	1371	Î.
Lisbon	linns	1880	* . *
Campton	Richards	1.892	5 1 •
arren	illiame	1907	
Lebanon	Poole, ilson	1925	. •

Traffi Fichard. Twayblade.

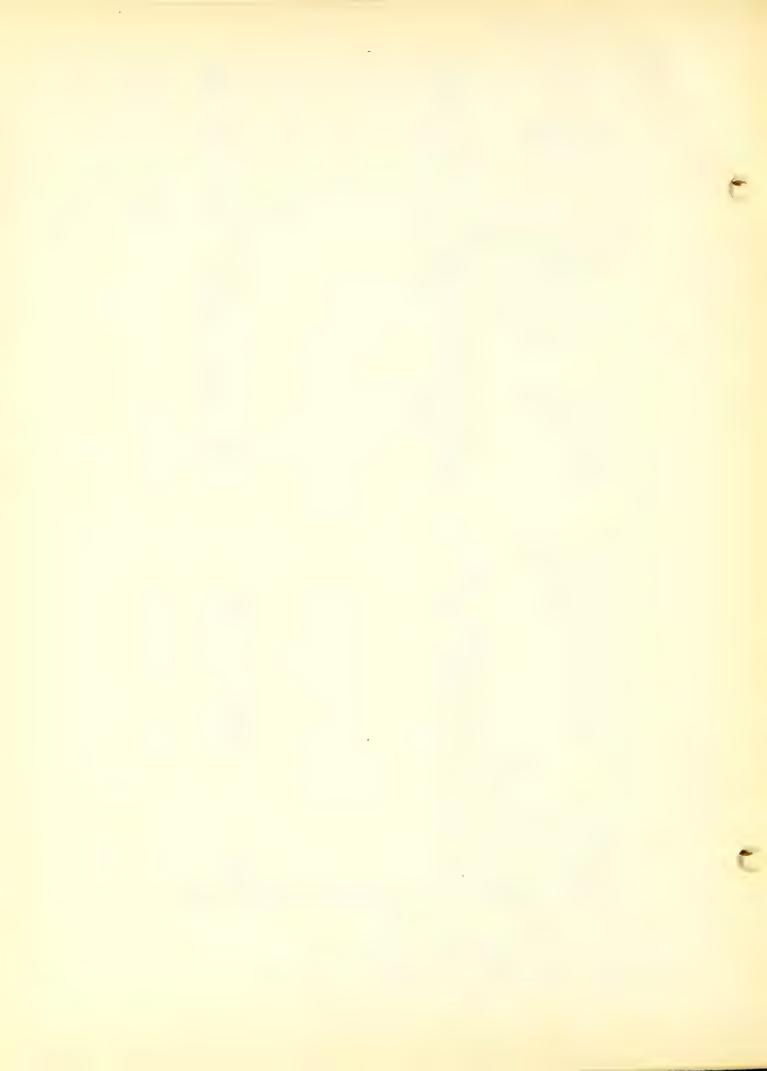
Liparia Losselii (L.) lichard.

Bethlehem Collins 1371 7.

Benorted by Jesup (1.) from Nanover, no specimen seen.

1. Jesup 1331 Flora : Fauna p. 42.

^{12.} Fernald 1926 Ahod. 28 p.176.



C LASS DICOTYLEDONEAR

CIUBCLICO ARCHICHLAMYDYAR

ORDER SALIDALITE

FAULT SALI ACKAE

SALIK (Tourn.)L. Willow.

Saliz nigra bersh	. Black Willow		
Holderness	Potany 7	1915	
bneiffaa	Fernald	1918	· 17
enover	filliams	1919	•
	-lint		x et-c
Saliz nigra bersh	., var. falcata (Pursh) Torr.		
"entworth	lilliams	1908	
Flymouth	Faxon	1894	•
	Mnowlton	1923	· • ***
Calix po Cordra L	. ay-Leaved "illor		
loodstock	Fornald	1915	475
Salix lucida Luhl	· chining fillow		
Lincoln	ennedy	1801	0.
Hymouth	Faron	1884	0.
Ashland	ernald	1916	7.
Hanover	Tint		.
Saliz elba b., va	r. vitellina (L.)Koch.		
Sarren	Tillians	1910	7 •
Lebanon	S. H	3662	r.,
Salix longifolia	Juhl. and Par Tillow.		
Lebanon	Reported by Jesup(#1.), no s	pecimen se	m.

1. Jesup 1871 Flora & Fauna p. 39.



Salix cordeta dil.

Franconia	axon	1007	*
	लग्नः चलेष्	1907	** •
ineoln	alling A	1971	•
Fentworth	illians	1908,1910	3.
Plymouth	Terneld	1915	TF.
sehland	ernald	1916	244.
Hanover	Flint		18.
Lebanon	Tennedy	1579	3.
	ATT	1920	Ţ.,
Salix syrifolis	Anderse (S.Salsamife	era of lanual. 1.)	
Bethlehem	Paxon	1392	-
Pronconia	Taxon	1837,1839,1890	.,5.
	Fernald, Iniley	1715	=.
Benton	illians	1107	
Salix Ova-ursi	Purch.		
Franconia	m.Poott	1355	7.
	Faxon	1387,1889	W,G.
	ernald, Smiley	1915	· in
Saliz Wa-urei	arsh., firma lesionhy	rlle Terneld (2.)	
Franconia	Fernald	1916	-05.
.alix herbaces	î •		
Franconte	ernel d	1710	•
Saliz discolor	uhl.		
Pranconia	- Faxon, fennedy	1710	

^{11.} Fernald 1914 Mod. 16 p.116.

^{2.} Fernald 1916 Wood. 13 p.52.



"arren	1111 ams	1779	7.
Plymouth	Thurston	2 3 2 m	1.30
Salix discolor Lu	ml., vor. latifolia Ar	ndersson (1.)	
Lebanon	Rennedy	1307	ę.
Salix humilie an	esh.		
Franconis	Faxon	1889,1890,1907	G., Mr.
Flymouth	ernald	1 71 =	ME.
calix h mailie ax	sh., var. kemeenawensi	Farwell (F2.)	
Franconia	Faron	1.252	5.
148100	Faran	1337	
Salix serices mas	sh. Filky Willow.		
Tranconia	Kanne'y	1717	. 4
Foodstock	Fernal	1015	1.75 th
" antworth	Williams	1010	HW.
verren	Tilliams	1908	G.
Lebanon	Fernald, Hunnewell	1020	
Saliz rostrata ?	lchards.		
Franconia	hennedy	1907,1910	,5.
Toodstock	! ernald	1,71,5	1.0
'er en	lillisme	1709,1710	.,G.
Lebanon	Kennedy	13/5	•
	D FEL	1920	e ge n → •
Nici	LUS (Fourn.)L. Popla	r.	
Populus alba			
budeville	lillians	1913	, ** •
41. :chneider 1921	Jour. rn. arbor. 2	p.5.	

2. Farwell 1904 annual Tept. lish. Acad. Sci. 6 p. 206.



Popul	1200	trem	127	oid	es	M 1	chx.

Woodstock	Fernald	1915	du
'iaverhill	Fernald	1917	ه کارین
Lebanon	Kennedy	1896	
Populus grandic	dentata ichx.		
Toodstock	Williams	1908	J.
Lebanon	Kennedy	1891	2.
Populus nigra I	., var. italica IuRoi.		
Hanover	Williams	1910	G.

OPDER MYFICALES

FAMILY MYPICACEAE

MYRICA L.

Myrica Gale L. : weet Gale.

1891 Lincoln Kennedy Reported by Jesup(#1.), no specimen seen. Myrica Gale L., var. subglabra (Chevalier) Fernald ("2.) "illiams Wentworth 1908 G. Myrica asplenifolia L. Sweet Fern. Fernald Haverhill 1917 115. Fernald Plymouth 1915 NE.

ORDER JUGLANDALES

PAMILY JUGLANDAGEAE

JUGLANS L. Walnut

Juglans cinerea L. Butternut.

Foodstock Fernald 1915

*1. Jesup 1891 Flora & Fauna p. 38.

#2. Fernald 1914 Shod. 16 p. 167.



Plymouth	Fernald	1915	re,
Lebanon	Konnedy	1394	€
	5 st	1 920	(5.

GARYA Nutt. Hickory

Carya cordiformis (Wang.) M. Koch.

Lebanon Farrows Peported by Jesun("1.), no specimen seen.

OTUTE PATALITE

FAMILY RETULACHAE

Collins (Tourn.) L. Hazelnut.

Corylus americana 'alt.

"ernald Haverhill 1917 N.1 ... Holderness Botany 7 1915 NE. Peported by Jesup ('1.), no specimen seen. Hanover THE. 1920 BaH Lebanon Corylus cornuta Marsh. (C.rostrata of Manual. 2.) Kennedy 1887,1838 G. Lebanon - 7 (** 1920 FFH

CAPPINUS (Tourn.)L. Hornbeam.

Carpinus caroliniana Walt.

Lebanon Kenne dy 1896 NW.

ETFULA (Tourn.)L. Birch.

#1. Jesup 1871 Flora & Fauna p. 38.

12. Viegand & Names 1924 Cornell Iniv. gr. Exp. Sta. 92 p.174. Memoirs



Setula lutea lichx. f. Yallow Birch.

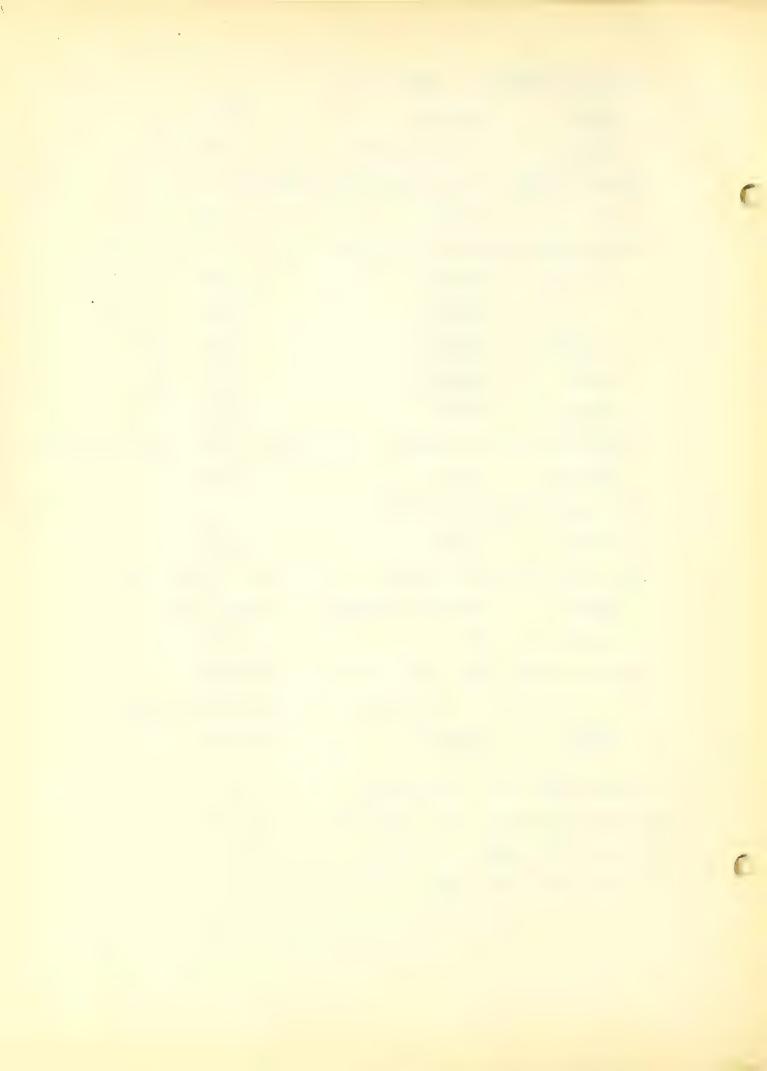
Hanover	Hitchcock	1333	? •
Lebanon	Vernald, Wannewell	1920	N.F.
Setula lutea Mich	x. f., var. macrolenis fernald	(1.)	
"arren	Williams	1908	1 n
Betula populifoli	a March. Gray Mirch.		
Franconia	"m.Boott	1055	n.
	Fennedy	1910	0.
loodetock	Fernald	1915	177.
Warren	Williams	1908	G.
Plymouth	Fernald	1915	1177.
Setula caerules-g	randis Blanchard. (B, pendula o	? Wanusi.	2. Indigenous.
Franconia	Kenn dy	1910	•
Betula pendula Ro	th. Introduced		
Hanover .	Williams	1910	G.
Setula papyrifora	Wareh. (B.alba, var. papyrifer	e of Vanue	1 (3.)
Hanover	Reported by Jesup("4.), no ap	eciman sea	n.
Lebanon	PPH	1920	
Satule namericare	forch ver cardifolia (Recal	Fernald	

Setula papyrifera March., var. cordifolia (Regel) Fernald.

(B.slba, var. cordifolia of Janual #3.)

Benton Filliams 1907,1908

- #1. Fernald 1922 Rhod. 24 p. 170.
- #2. Fernald 1922 Rhod. 24 p. 171-173.
- #3. Fernald 1921 Fhod. 23 p. 257.
- 44. Jesup 1891 Tlora & Pauna p. 38.



ALWIS (Tourn.) Hill. 11der.

Alnua crispa (lit.)Purch	Al	nua	cri	200	(11	t		P	ur	eh	
--------------------------	----	-----	-----	-----	---	----	---	--	---	----	----	--

Franconis Fernald, Smiley 1915 WE.

Hanover "eported by Jesup("1.), no specimens seen.

alnus crispa (Ait.) Pursh., var. mollis Fernald. (A.mollis of anual 2.)

Franconia Mennedy 1907 ME.

Woodstock Fernald 1915 ME.

Holderness Gundersen, Lowenstein 1914 ME.

Botany 7 1915 ME.

Alnue incana (L.) Moench., var. glauca Ait. ("3.)

Haverhill	Fernald	1993	111".
arren	"illiems	1908	G.
Bristol	Fich	1373	a .
Lebanon	Kennedy	1396	7
	PFH.	1920	NE.

PANILY PAGACEAD

Table (Tourn.)L. Beech

Fagus grandifolia Thrh.

Lebanon BPH 1920 NT.

CALTANLA (Tourn.) Hill. Chestnut.

Castansa dentata (Marsh.)Borkh.

Hanover Filliams 1910 G.

1. Jesup 1891 Tiora & Fauna n.33.

"2. Fernald 1913 Phod. 15 p. 44.

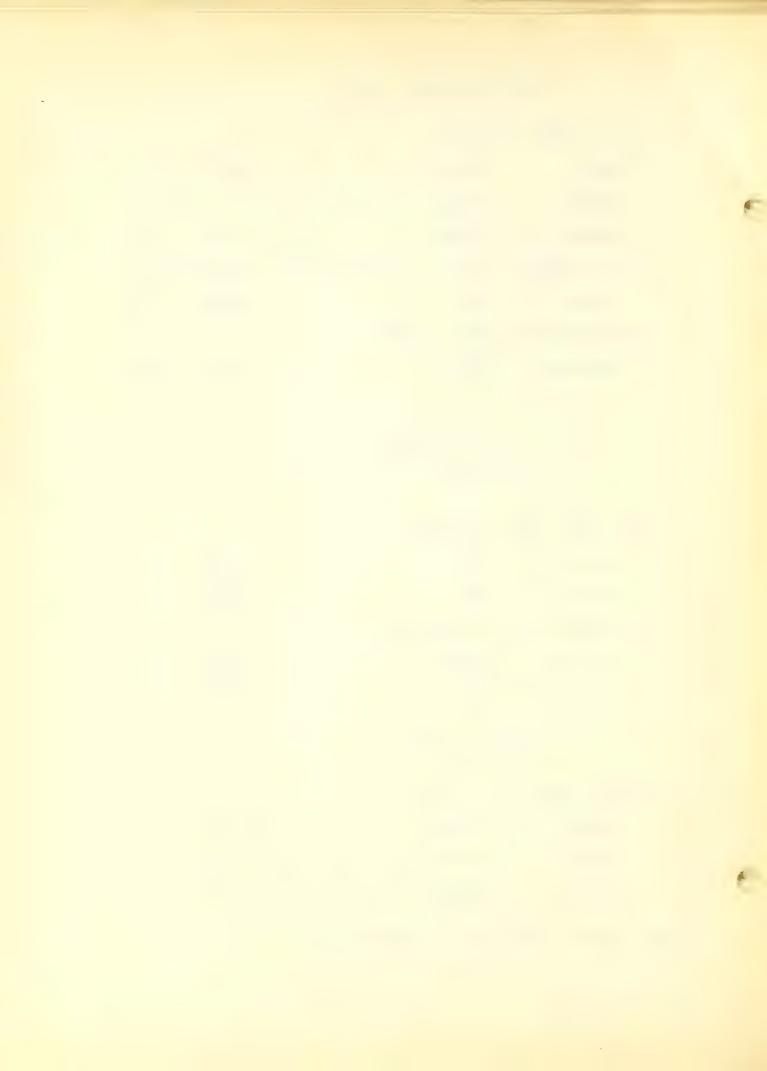
43. gray 13/18 Manual p.423.



" :FRC is (Tourn.)L. Jak.

Quercus alba L.	White Oak.		
Rath	Fernald	1917	*Yi •
Plymouth	Pernald	171"	•
Lebanon	"illiame	1910	7.
Quercus borealis	Micha. f. (C. rubra of Manual.	1.) Gray	ak.
Lebanon	are	1920	mi.
Quercus coccinea	Muench. Scarlet Oak.		
Holderness	Evenson	1991	Nº 50
,	ORLER GRIIG 1,FS		
9	UNILY ORTIGADEAS		
\$T (13)	(Tourn.)L. Elm.		
Ulmus fulva Mich	x. Slippery Elm.		
Plymouth	Fernald	1915	n n
Lebanon	BFH	1920	r.
Ulmus americana	American Elm.		
Pranconia	Kennedy	1919	रें ●
Lebanon	PPH	1920	NE.
Maria Maria	LUS L. Hop.		
Humulus Lupulus	L.		
Tarren	Williams	1910	G.
Hanover	"illians	1910	ā.
Lebanon	Kennedy	1894	~

fl. _argent 1916 | hod. 18 p.46-43.



MTICA (Tourn.)L. Nettle.

Urtica procera	fuhl.	(1.g)	racilis	of	Manual.	41.)
----------------	-------	-------	---------	----	---------	------

Franconia	Yennedy	1907	•
Soodsville	"illiame	17:13	~ ·
Lebanon	PPH	1920	mF.

LATORTIA Baud. Tood Nettle.

Lapartea canadensis (L.) Gaud.

Toodstock	Fernald	1915	111.0
Campton	Hoar	1358	NE.
Plymouth	Enowlton	1925	14120
Lebanon	rennedy	1891	13 7 •

POTMITTI Jacq. Palse Mettle.

Bochmeria cylindrica (L.) .. w.

Hanover	Villiams	1910	*
Lebanon	Kennedy	1890	7,

OFFER SAMTALALES

FAMILY SANTALACEAE

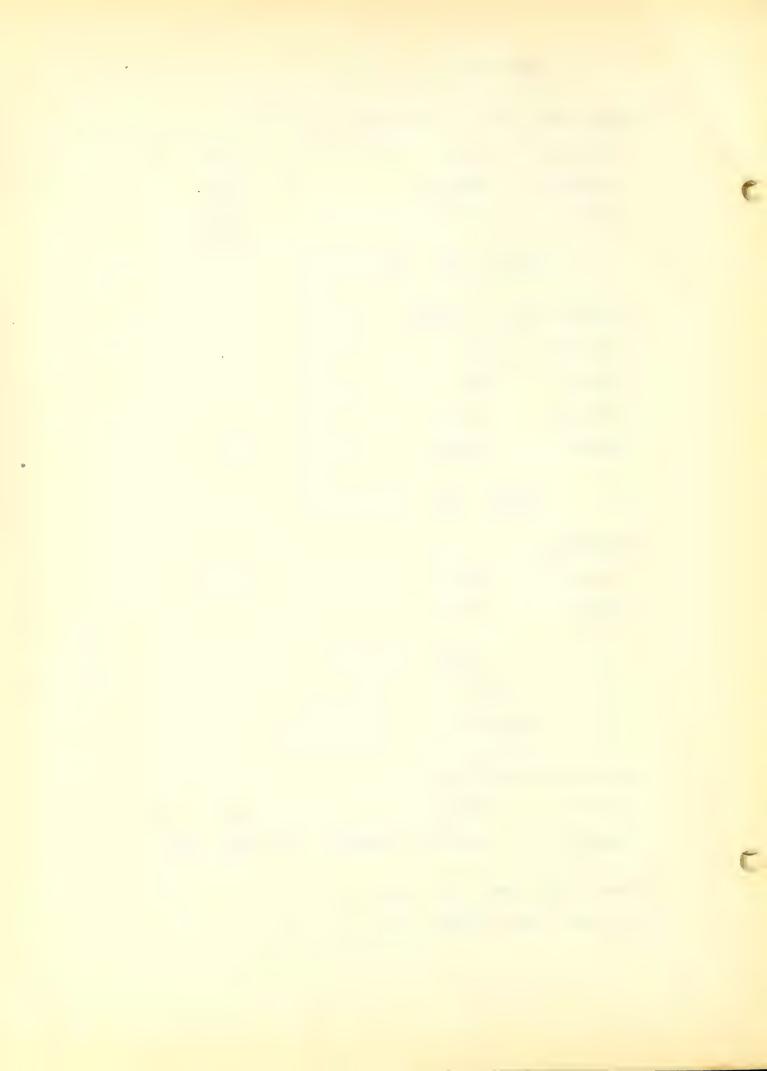
TOWARLEA Nutt. Bastard Toad-Flax.

Commandra umbellata (L.) Tutt.

ishland	Fernald			1916	13	II.
Canaon	Renorted	by Jesup(*2.),	no	specimen	seen.	

1. Fernald 1926 Thod. 28 P. 191.

^{2.} Jesup 1391 Flora & Fauna p. 36.



FAMILY LOWANTHACHAE

AFCEUTHOFILE Bieb.

Arceuthobium pusillum Peck. Dwarf Mistletoe

Hanover	Jesup	1383	· .
Canaan	Reported by Jesup(11.),	no specimen	seen.
Lebanon	Jeeup	1385,1891	2,7 %

OFFER ATTITUDORIALIO

F MILLY ANTITOLOCHIALEAT

ALARUM (Tourn.)L. Tild Singer.

Asarum canadense L.

Franconia	Faxon	1398	G.
Haverhill	Fornald	1917	177
Hanover	Rickerd	1846	Au.
Lebanon	Kennedy	1895	7.
	Haskins	1915	1 4
	BPH	1920	WE.

RDER POLYGONALES

FAMILY POLTOONAURAE

RUMEX L. Dock. Sorrel.

Rumex Patientie L.

	Tarren	Williams	1902	*
	Henover	"illiams	1919	· .
	Letanon	Alden, "ennedy	1904	· .
R	umex crispus L.			
	Franconia	Kennedy	1907	· .
	Warren	"illiams	1908	12



Rumex obtusifolius L.

Warren Williams 1908 G.
Lebanon Kennedy 1893 G.

Rumex Acetosella L. Sheep Sorrel.

Holderness Jundersen, Lowenstein 1914 WT.

PULYG : "M (Tourn.) !..

Jalygonum scabrum Moench. (P. Tomentosum of Manual. "1.)

Warren Williams 1903

Polygonum natans aton (P.amphibium of lanual. 2.)

Holderness Gundersen, Lowenstein 1914

Honover Reported by Jesup(#3.), no specimen seen.

Enfield Mennedy 1390 0.

Polygonum Hydrociter L.

Franconia Kennedy 1910 9.

Polygonum sagittatum L.

Holderness Sundersen, Lowenstein 1914 ME.

Polygonum cilinode Michx.

Franconia Lowell 1845 BS.

Wm.Boott 1355 G.

Woodstock Fernald 1915 NT.

Lyme Loveland 1885 NE,

Lebanon BFH. Eaton 1920 NE., G.

FAGUFYRUM (Tourn.)L. Buckwheat.

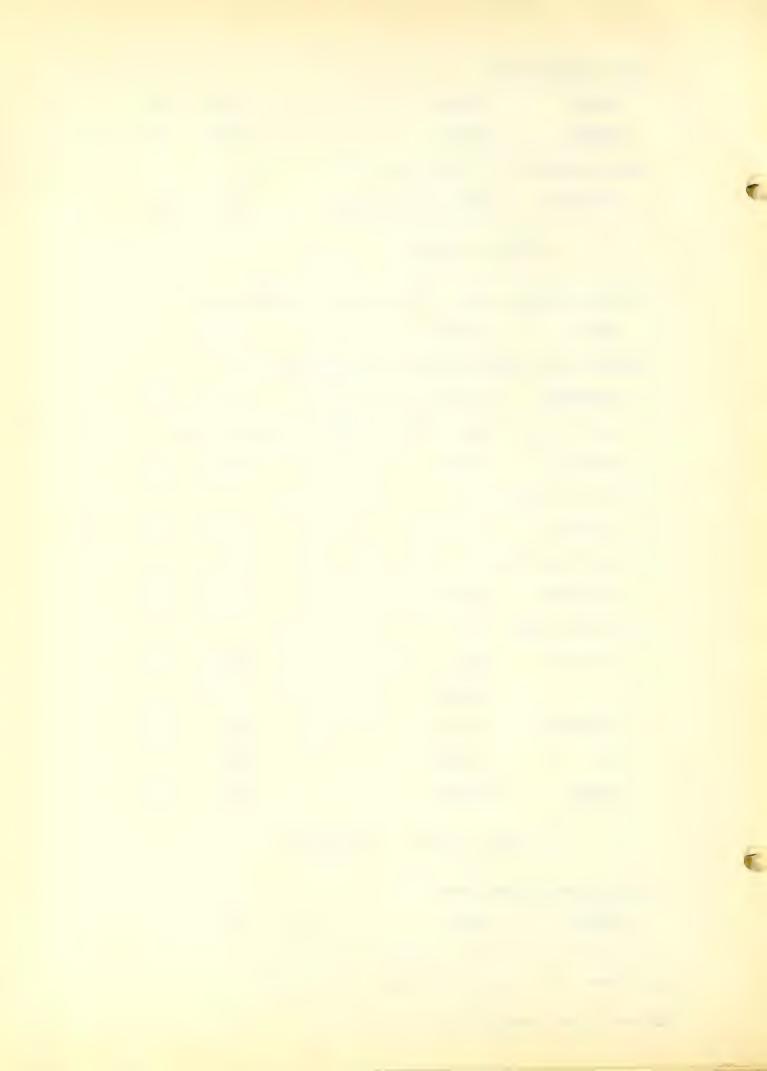
Fagopyrum esculentum Moench.

Lebanon Kennedy 1895 G.

11. Ferneld 1921 Thoc. 23 p. 259.

12. Stanford 1925 Shod. 27 p.156.

#31 Jesup 1891 Flora & Fauna p.35.



Fagopyrum	tataricum	(L.) Jaortn.
-----------	-----------	--------------

Warren	Williams	1903	J.
Hanover	illians	1717	17

PULIGONELLA Michx.

Folygonella articulata (L.) Meisn.

Bethlehem	Pease	1924	⊌s.h
foodstock	Fernald	1915	•
Campton	Ahler, Mussell	1 317	.,
"oodeville	Sennedy	1974	? •
rentworth	"illiane	1910	•
Plynouth	Pichards	1372	•
	inumiton	1916	. •

ONDER CHEED, DDIALES

BALLARI COCK IN VIINA

CHIMFODIGH (Fourn.)L. Pigweed

Chenopodium lotrys L. Jerusalem Cak.

Hanover	lillians	1910	Nr.,G.
Lebanon	Kennedy	1890	179
Chenopodium hybr	idum L.		
Haverhill	Ferneld	1917	VII.
Herron	∦ea8 0	1926	71.
Lebanon	Dean, Kennedy	1690	0.

Chenopodium lanceolatum Muhl. (C.album, var. viride of Manual in part. (1.)

Toodsville Villiams 1910 .

Chenopodium Poscianum Mog.

Haverhill Fernald 1917



PAUELY AMAPAMENAGEAT

AMADATTULE (Tourn.) I.

Amarauthus retroflexus L.

Tarren Tilliams 1777 .

Lehanon Kennedy 1239 G.

FALILY ILLICEPRALIAL

WYCHIA Wichx.

Anychia canadensis (L.)P. ..

Nolderness Syenson 1921 T.

TALKYCHIA (Tourn.) adans. hitlow-ort

Faronychie argyroco a (Mohr.) Nutt., var. albimontana Fernald.

*aterville Goodrich 1974 M.

URDER CARYOPHYLLALES

FALILY CARYOPHYLLAGEAU

. AMOUNTA J. & G. Preel.

Spergularia rubra (L.)J. & C.Preel.

Peported by Jesup (1.) from Canaan and Flymouth, no specimens seen.

SPERGULA L.

Spergula arvensia L.

Franconia Faxon 1927 "...

Holderness Sundersen, Lowenstein 1914 II.

Henover Feborted by Jesup(#2.), no specimen seen.

1. Jesus 1891 Flora & Fauna p. 6.

12. Jesup 1891 Flora & Fauna D. 7.



SA INA L.

Sagina procumbens	lagina prod	numbens	L.
-------------------	-------------	---------	----

Haverhill	Fernald	1917	14) (•
Holdernes:	Fexon	1336	²⁰¹ →
Hanover	.1111ame	1919	m,
Tekanon	lennedy	1374	0.

AR SARIA L.

Arenaria laterifl.re L.

Hanover	Williams	13.3	7.0
Lebanon	oi.it	1920	· · · · ·
erenaria etrict	a Wichx.		
Toldermess	Pannang	1871	**************************************
	Svenson	1921	wit.
Arenaria proent	andice (Tetz.)Spreng.		
Pryncosia	Hoar	1359	· ,
	Wernald, Smiley	3018	11.
Deaton	Cherton	1912	25.
	illiams	1907	3.

Areneria groenlandica (Petz.) Spreng., var. glabra (Lichx.) Fernald. ("1.)

1913

Thornton Featherby 1915 WE.

STELLANIA L. Chickweed.

Pease

Stellaria borealis Bigel., var. isophylla Pernald. (2.)

Benton Williams 1907 .

1. Fernald 1919 Rhod. 21. p. 20.

^{2.} Fernald 1914 Rhod. 16. p.144.



Lebanon | ermald, lunnamell 1900 11. Stellaria uliginosa larr. Holderness Faxon 1886 011 itellaria gracines L. Menover Jeeup G. 1887 Lebanon Kennedy 1837 P.T. TO SEE ILL I. Cerastium arvense L. reported by Jesus (1.) from Hanover, no specimen seen. Corasti m vulgatum L. Holderness meersen, Lowenstein 1914 AHDETE. L. Corn Cockle. Agrostean libero L. loodstock | Illiams 1903 Tenorted by Jesup(1., from denover, no enecimen seen. LYCHMIS (fourn.)L. Lychnis chalcedonica L. Wenover Illiams 1919 2. Lychnie alla ill. Hansver "Illiame 1910 . 110 47 ... Dilene anting line h. soostock Fernald 1915

1. Jesup 1891 Flora & Fauna p. 6.



Silene Armeria L.

Manover Williams 1910 G.

Lebanor Kennedy 127 %.

filene noctiflore L.

Warren Filliams 1907 3.

Hannyer Williams 1910 G.

Silene latifolia (Mill.)Britton & Wendle.

Perorted by Tesup(1.), from Hanover, no specimen seen.

. I JANE !

Raponaria officinalis L. Bouncing Tot.

Hanover "illiens 1919 7.

Li. Will L. Pink.

bianthus Trueria L.

Henover Chivers 1915

VALILY V PTULA ADEAE

CLAYCOMIA (Gronov.)L. Spring Seauty.

Claytonia caroliniana Michx.

Franconia Faxon 1292 ...
Lebanon Lennedy 1900 W.

JALLE BANUNCULALES

Facily of all partials as

TOP TOP TIM L. Hornwort

1. Jecur 1991 Tlora : Panna p. 6.



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Coratonhyllam demens zo 1.
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Deported by Jesup (1.), from Canaan and Enfield, no specimen seen.

Thomas of ionual. (lymphaea of ionual. (.)

Nymphominthus variegatus (Ingelm.) ornald. (Nymphaea advena, var. variegata

of sanual. '2.)

Tentworth "illians 1907 ".

Infield Lannedy 1970 W.

Nameyer Williams 1910 .

Nymphomanthus sterophyllus (Pers.) Pernald (Pumbage sterophylla of Manual. #2.)

Hantver laring 1910 .

Castalia of Manual. #2.

Mymchaea voorsta lit. (Castalia odorata of Manual. 2.)

infield Hennedy 1890 .

Tymchaea odorate it., forma rosea Purch. (Castalia odorata, forma rosea

of larus1. (2.)

lentworth illiens 1908 15.

I .I Il Schreb. ater Shield.

Braseria Uchreseri Imel.

lebenon Tennedy 1890 J.

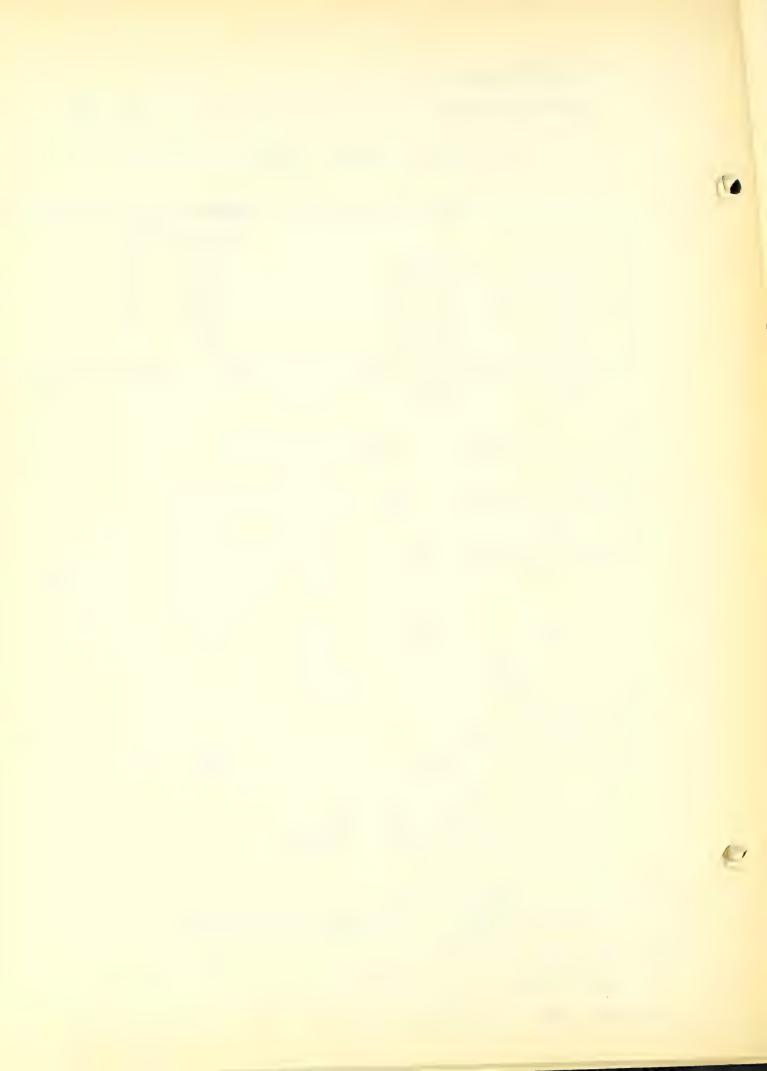
! FINE TUNGILAGRAE

Ranke JLJ (Yourn.) L. Butter cup

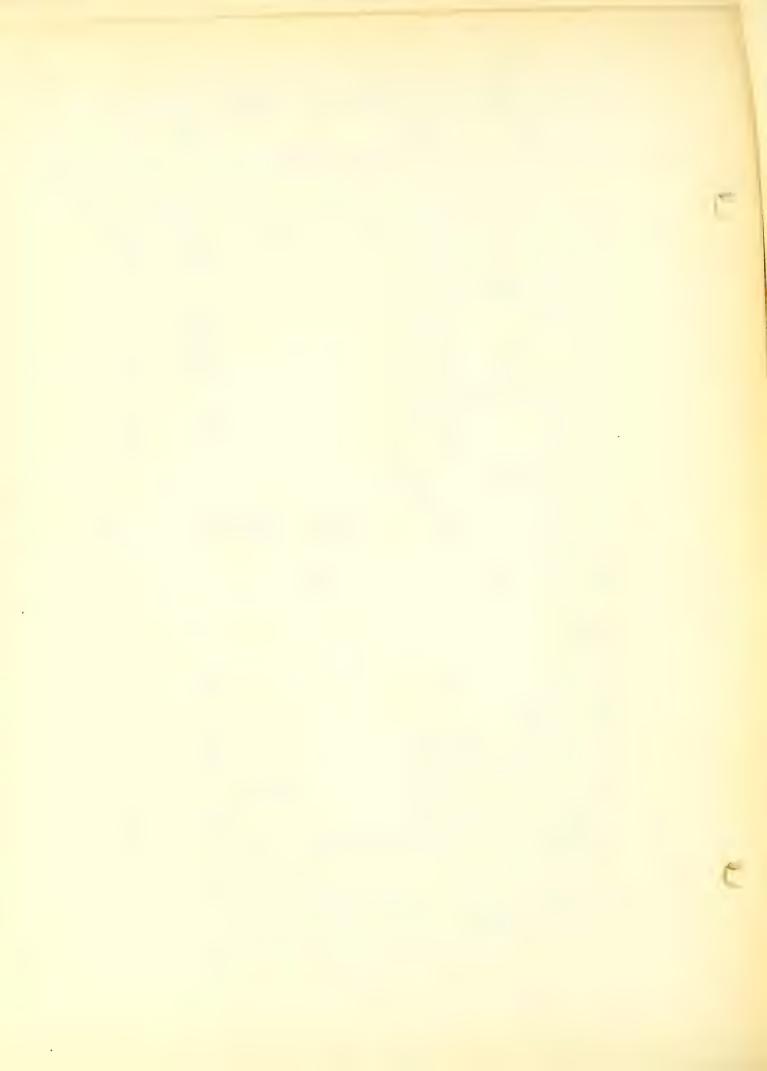
Banunculus delphinifolius Forr.

Hanorted by Jesup (J.) from Hanover, no specimen seem.

- 1. Jesup 1891 Flora & Fauna p. 40.
- 2. Fernald 1919 Rhod. 21. p. 183-187.
- 3. Jesup 1891 Flora & Fauna p. 2.



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Ranunculus reptans L. (N.Flammula, var. reptans of Manual. 1.)
  entworth
               illiams
                                             1938 0.
Panunculus rentane L., var. ovalis (Nigel.) This. ( . Tlamula, .ar. ovalis
                                             of anal. 1.)
   Ashland
                aurdack
                                              1905
                                                      E.
                                              1999
                                                       ME.
   Lebanon
                 Peass
Panusculus abortivus L.
  Lebanon
                                              1900
                                                      .
              dennedy
                 JI'H
                                              1 120
Renunculus requirentus Poir.
                                                       19
  Senton
                 Williams
                                              130%
                 7:1 2 4
  Lebanun
                                              1920
                                                       •
Panunculus sententrionalis Poir.
   Tranconia
                            1891,1892,1503,1895,1397
                                                       WE., G.
                 axon
                                                       .
  hobanon
                 13 13
                                              9 700
Panunculus repens L., var. villosus Lamotte. ( 2.)
  lanove: Lyon
                                              1325
Ranusculus repens I., var. pleniflorus Trueli. (2.,
                                                       ul a
   Janover
                 Jesup
                                              1803
Ranunculus acris L.
   Holderness Jundersen, Lowenstein
                                             1914
                                                       .
Ranunculus acris I., var. Itevent (Andrr.) Lange.
   laterville Oushman
                                              1912
                                                       ** 'A
   Holderness
                 Gundersen, Lowenstein
                                              1014
                                                       NT. .
1. Pernald 1917 Shod. 19 p.135-136.
72. Fernald 1919 Rhod. 21. p. 169.
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TH LICT M (Tourn.)L. Meadow Rue.

The	11	ct	LUM	dio	ic	מבוני	L.
-----	----	----	-----	-----	----	-------	----

Haverhill	Fernald	1917	T.
Lebanon	BFH.	1920	NE.
Thelictrum polygatum	Muhl.		
Foodstock	Fernald	1915	
Lebanon	Kennedy	1990	=1.

ANEMONELLA Spach.

Anemonella thalictroides (L.) Spach. Fue anemone.

Clarement Barrows Reported by Jesup(1.), no specimen seen.

HEAFICE (Supp.)Hill. Hepatica.

Wenatica americana (EC.)Wer. (W.tril ba of Manual. (2.)

Holderness	" mdercer, owensteln	1711	() Set a
Hanover	filliams	1919	3.
Lebanon	Kennedy	1 125	₫.
	PFH	1920	Jahr.

ANTHONE (Tourn.)L. Anemone.

Anemone cylindrica Gray.

Hanover	Chivers	1902	
Anemone riparia !	ernald.		
Haverhill	Fernald	1917	NE.
Hanover	Williams	1910	G.
Anemone virginiar	ta L.		
Plymouth	Fernald, Knowlton	1915	1×0

71. Jesup 1891 Flora & Fauna p.1.

^{#2.} Fernald 1917 Fhod. 19 p.45.



Anemone quinquefolia L.

"oodstock	Fernald	1915	\$ 2 m
Haverhill	Fernald	1917	NT.
Lebanon	Kennedy	1394	9.
	BFT	1920	NE.

CLUMATI: L. Virginia Bower.

Clematis virginiana L.

Foodstock	Fernald	1915	NE.
Holderness	Gundersen, Lowenstein	1914	W.
Lebanon	Kennedy	1891	R.
	EFH	1920	MM.

Clematic verticillaris DC.

Holderness	Svenson		1921	WE.
Lyme	Reported	by Jesus("1.),	no specimen	seen.

CALTHA (Rupp.)L. Marsh Marigold.

Caltha palustris L.

Reported by Jesup(#2.), no specimen seen. Lebanon

COFFIS Salisb. Soldthread

(Contis grocklandica	(Oeder.) Fernald.	(C.trifolia	of Manual	. '3.)
	Pranconia	Russell			S.
	Lincoln	Kennedy		1838	G.

- /1. Jesup 1891 Flora & Fauna p.l.
- \$2. Jesup 1891 Flora & Fauna p.2.
- 3. Fernald 1929 (hod. 31 p.142.



Toodstock	Fernald	1915	***
faterville	Cushman	1912	BS.
Holderness	Gundersen, Lowenstein	1714	WO.
	Fernald	1915	NE.
A 'ILT'	IIA (Tourn.)L. Columbine.		
-	(1000000)		
Aquilegia canaden	sia L.		
Haverhill	Fernald	1917	NE.
Plymouth	Fernald	1915	M.
Holderness	Fernald	1915	III.
Lebanon	Fra	1927	WE.
Aquilegia vulgari	b.		
Woodstock	Fernald	1915	NE.
tarren	Tilliams	1917	3.
CIMICI	FUGA L. Bugbane.		
Cimicifuga Facemo	Ba (L.)Nutt.		
Infield	Yennedy	1394	G.
.OTATA	L. Beneberry		
Actaea rubra (Ait	.)Willd.		
Lebanon	Yennedy	1887	3.
	BFH	1920	•
Actaca alba (I)	ill.		
Plymouth	Kennedy	1915	NE.
Hanover	Haskins	1915	WE.
Lebanon	Fernald, Hunnewell	1920	NE.
	Hervey		NE.



FAVILY B RETRIDACEAR

CARLOPHYLLUM Wichx. Blue Cohosh.

Caulophyllum thalictroides (L.) Michx.

Woodstock Fernald 1915 WE.

BIRBLEIS (Tourn.)L. Barberry.

Berberis vulgaris L.

Lebanon 8FH 1920 W.

OFDER PAPAVET LES

PAMILY PAPAVERACEAE

SATTUINAFIA (Bill.)L. Bloodroot.

Canguinaria canadensis L.

Plymouth Fernald 1916 W.
Hansver lilliams 1910 %.
Lebanon RPH 1920 NE.

CHILILONIUM (Tourn.)L. Celandine.

Chelidonium majus L.

Woodstock Fernald 1915 IE.

Holderness Gundersen, Lowenstein 192 VF.

Hanover Villiams 1910 G.

FAMILY PUMAPIACEAE

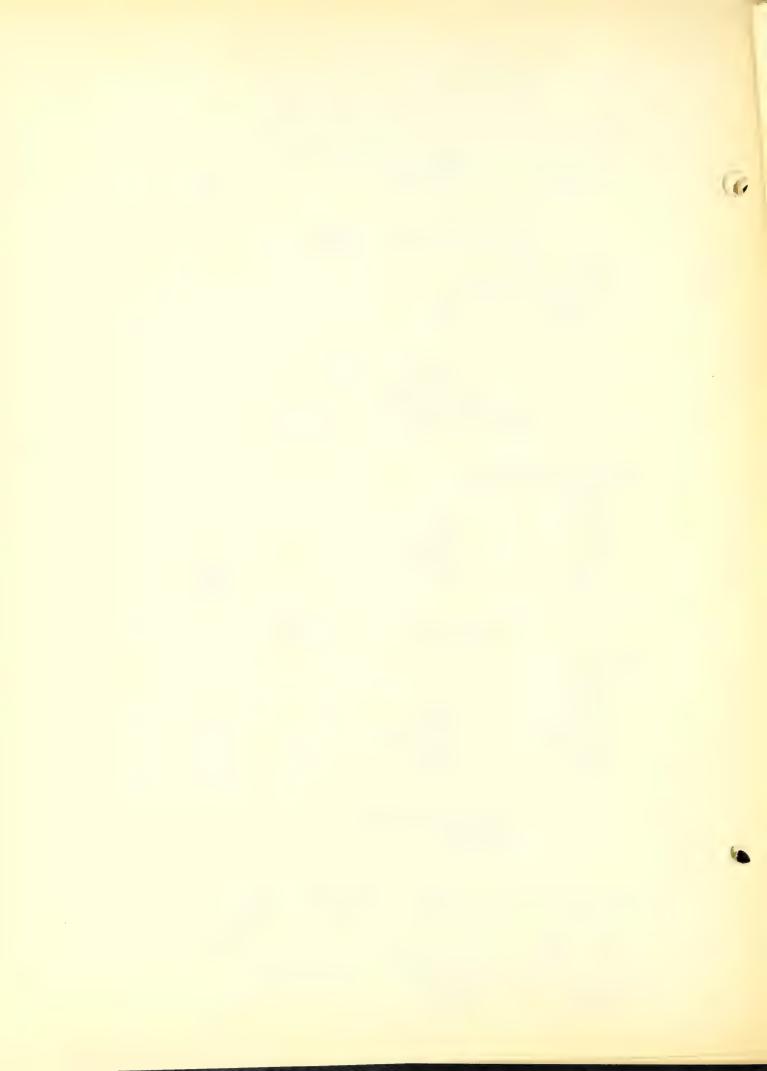
LIUINTHA Bernh.

Dicentra Cucillaria (L.) Bernh. Dutchman's Breeches.

Franconia Faxon 1392 G., WE.

Dicentra canadensis (Goldie) Walp. Squirrel Corn.

Hanover Rickard 1846 HE.



COPYMALTS (Till.) medic.

Corydalis sempervirene (L.)Pers.

Lebanon Freston 1879 TE.

BIN 1920 W.

1 MASTA (Town.) I. Fumitory.

Fumaria officinalis L.

Hanover Chivers 1900 G.
Lebanon Hervey 1916 NE.

FAMILY OF IVE AL

THATT (Tourn.)L. Penny Cress

Thlaspi arvense L.

Tarren Filliams 1908 9.

Lebanon Reported by Jesup (1.), no specimen seen.

LEFIDIUM (Tourn.)L. Penpergrass.

Lepidium virginicum L.

Woodstock Fernald 1915

Lepidium apetalum "illd.

Warren Williams 1907 G.

Lepidium campestre (L.)P.dr.

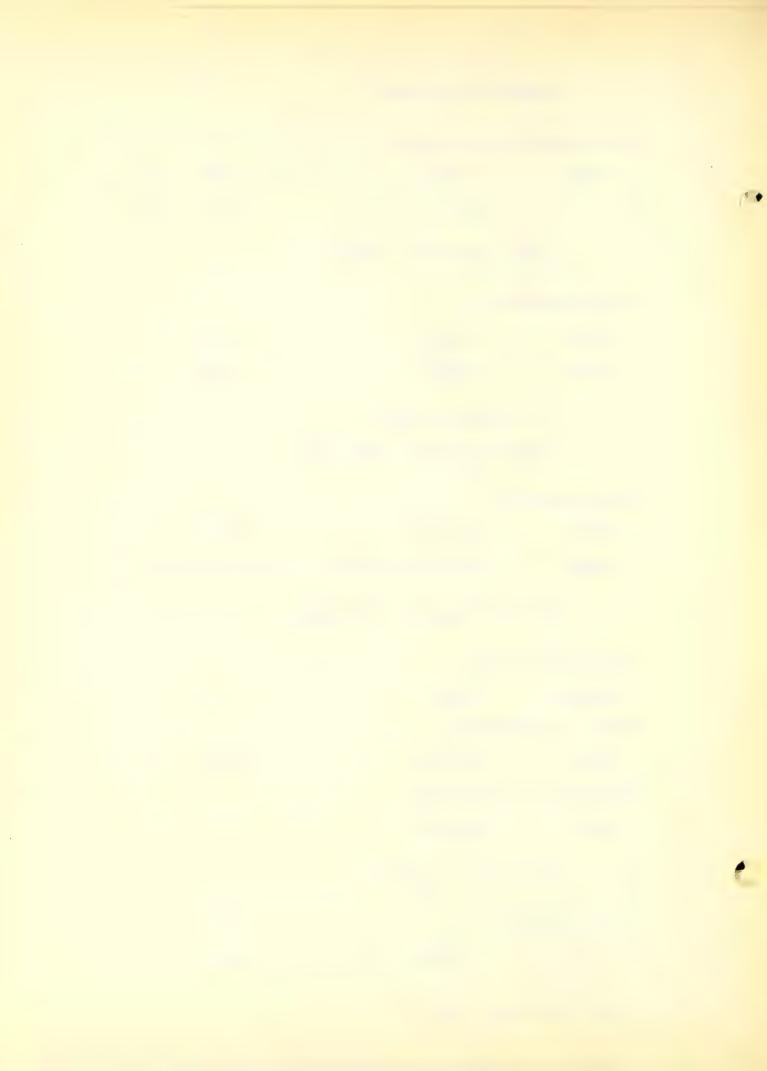
Hanover #illiams G.

QUEULARIA L. Awlwort.

Subularia aquatica L.

Franconia Tuckerman 1343 0.

#1. Jesup 1891 Flora & Fauna p. 4.



Franconia	"m.Roott	1362	ME.
	Lamson Scribner	1971	
	Slosson	1333	7.
	Faxon	1884,1837	BE.,NE.
	Puller	1335	and the second
	Tilliems	1894,1913	G., W.
	Prince	1397	₱. •
	Jakes		20., TE.
Holdernees	(venson	1,721	500
Achland	birdock	1205	
CALTLINA	Crantz.		
Camelina misrocarpa	ndrz.		
Moodsville	Williams	1979	7.
. AFTANTE	(Tourn.)h. "adish		
Caphanus Ranhanistru	n L.		
Franconia	Kennedy	1907	G.
Nenover	Williams	1910	3.
Fabhanus sativus L.			
Hanover	"illiams	1910	G.,NE.
ACICARIO	(lown.)L.		
Brassica arvensis (L	.) Ktze. Charlock.		
Plymouth	Pargent Reported by Jesus	p(%1.), no spe	cimen seen.
Hanover	Villians .	1910	G.
Brassica juncea (L.)	Cosson.		
Lebenon	Kennedy	1894	G.

11. Jesup 1891 Flora & Fauna p. 4.



Brassica nigra (L.) Koch.

Lisbon	Faxon	1396	WE.
Warren	"illiams	1910	3.

Brassica campestris L.

Franconia	Taxon	1897	
Hanover	Williams	1910	G.

CISYUDFI M (Tourn.)L. Hedge ustard.

Sisymbrium officinale (L.) Scop.

Warren	Williams	1908 3.

Sisymbrium altissimum L.

Bethlehem	Kennedy	1911	ITE.
Woodeville	Williams	1998,1910	ø.
Plymouth	Sargent	1979	O.

TRYDIA M (Yourn.)L.

Erysimum cheiranthoides L.

Hanover	Reported by Jesup(#1.),	no specimen	seen.
Lebanon	Kennedy	1894	TO.

RURIPA Scop. (Padicula of Manual. "2.)

Poripa sylvestris (L.) Pess. (Padicula sylvestris of anual. #2.)

118110	461	111111111111111111111111111111111111111	1910	u.
Loban	non	"illiams	1910	7.

Roripa palustris (L.) Ress. (Fadicula palustris of Manual. #2.)

Lisbon	Kennedy	1910	T .
'enover	Williams	1910	G.

1. Jesup 1891 Flora & Fauna p. 4.

Hanavar Williams

^{12.} Sprague 1924 Jour. Bot. 53 p.225.



Roripa Armoracia (L.)4.3. Witchcock. (Radicula Armoracia of Manual. 1.)

Warren

Williams

1910 3.

BIRT REA R.Br.

Barbarca vulgaris R.Br.

Lebanon Kennedy

1337,1396

Barbarea vulgaris R. Pr., var. longisiliquosa Carion. (2.)

Warren

Williams

1919 3.

Hanover

Williams

1910 :.

D'MAPIA (Tourn.)L.

Dentaria dinbylla Michx.

Franconia	Faxon	1892,1898	115.,7
Woodstock	Fernald	1915	NB.
Lebanon	Haskins	1916	To.
	BFTE	1920	5 g 7

CARDALINE (Tourn.)L.

Cardamine bellidifolia L., var. laxa Lange.

Franconia	Fernald, imiley	1913	735
Cardamine pennsyl	vanica Muhl.		
Woodstock	Fernald	1917	* * ***
Waterville	Ware	1905	*1"
	Cuchman	1912	MR.
Holderness	Gundersen, Lowenstein	1914	T.
Lebanon	BUR	1920	WB.

oranie 1924 Jour. Bot. 55 0.225.

^{#2.} Fernald 1909 Rhod. 11 p. 134-141.



PARIS L.

Arabis arumandi Bray.

Holderness	Pernald	1915	
Hebron	Pease	1926	* 1
Hanover	reported by Jesup(1.), no specimen	seen.
Lebanon	BFA	1920	5 ° .
Arabis hirsuta	(L.)Scop.		
Bath	Pence	1926	٠.,
Arabie viridis	Barger. (42.)		
Holderness	Syengon	192 0	7

PAVILY RESELACEAE

RELEDA (Tourn.)L. Mignonette.

Resede alba L.

Lisbon Kennedy 1997 "E.

ORDER SARPACENTALES

FAMILY SARPACENIACEAE

Tara TI (Tourn.) L.

Sarracenia purpurea L. Pitcher-Plant.

Franconia	Kennedy	1900	3.
Liebon	Faxon	1891	3.
Holderness	Gundersen, Lowenstein	191/	NT.
Lebanon	Haskins	1915	NE.

FAMILY DROSTRACEAE

11. Jesup 1891 Flora & Fauna p. 4.

12. Harger 1911 Thod. 13 p.37-37.



1705TTLL. Sunder.

Trosera rotundifolia L.

Toodstock Ternald 1915 T.

Trosera longifolia L.

Tentworth Tilliams 1908,1910 G.

Eansver Reported by Jesup("1.), no specimen seen.

Lanaun Minslow 1919 ML.

Infield Kennedy 1890 G.

DRIVER POSALES

FAMILY CRASSULACEAS

PENTENDAUM (Gronov.)L.

Penthorum sadoides L.

Lelanon Tennedy 1373 .

Hervey 1916 "T.

SEUM (Tourn.)L. Stonecrop.

Sedum triphyllum (Haw.)S.F.Gray. (S.purpureum of Janual. "2.)

Holderness Gundersen, Lowenstein 1914 ME.

FAMILY DAMING COLLE

SAMI TAGA (Fourn.)L. Saxifrage.

Saxifraga cenneylvanica L.

Beth Fease 1926 F.
Lebanon 2FH 1929 NE.

"1. Jesun 1371 Flora : fauna p. 15.

72. Robinson & Fernald 1909 Rhod. 11 p.46.



Camifraga virginiensis Michx.

Plymouth	Fernald	1915	ii;
Holderness	Wernald	1917	-11
Achland	Fernald	1916	•
Lebanon	1.12	1727	• •

TIANLIA L. False 'iterwort.

Tiarella cordifolia L.

Tranconia	"Illiams	1 3 124	7 a
	Russell		9.
Lincoln	Em.Boott	1855	•
Coodstock	"ernald	1915	201.
Danton	Seatherby	1915	
Plymouth	Knowlton	1915	
Holderness	Fernald	1915	•
Hanover	Rickard	1345	ns.
	Heskins	1715	150
Lebanon	Kennedy	1337	٥.
	T. Yes	1920	YE.

Willia (Tourn.)L. Miterwort.

Mitella diphylla b.

Bath	Pease	1917	19 and 10
Hanover	ickard	176	TE.
	Williamo	1919	7 g
Lebanon	Kennedy	1395	
	Pease	1907	-11
	BIT	1923	JF.



CH-YAD. FL TRIM (Fourn.) . Tolden axifrage.

Chrysosplenius americanum Schwein.

Taterville	Cushman	1912	BS.
"arren	Williams	1937	.i •
Holderness	ernald	4 44 82	/ g-m
Lebanon	चे क् ष	1020	•

"IPED 1. urrant. Tooseberry.

Ribes Cynostati L.

Franconia	C. Faron	1399	
Farren	"illiams	1.907	5.
Plymouth	Fernal d	1715	•
Holderness	Botany 7.	1915	NE.
Fibes americanon l	ill. (*.floridum of .	emial. '1.)	
Lincoln	Vennedy	1063	1.
Hanover	Chivers	1902	
Ribes lacustre (Pe	ers.)Poir.		
Franconia	Boott	1355	10
	Faxon	1 ,. 30	£1.)
Lishon	Faxon	1391	or many
arren	Williams	1907	**
Henover	Reported by Jesup(2.), no specimen se	en.
Pibes glandulosum	Grauer. (R.prostratum	of Vanual. (7.)	
Franconia	Wm.Boott.	1855	G.

Franconia	Wm. Poott.	1955	G.
Renton	Williams .	1908	~1

^{1.} Robinson & Fernald 1909 Rhod. 11 p. 46.

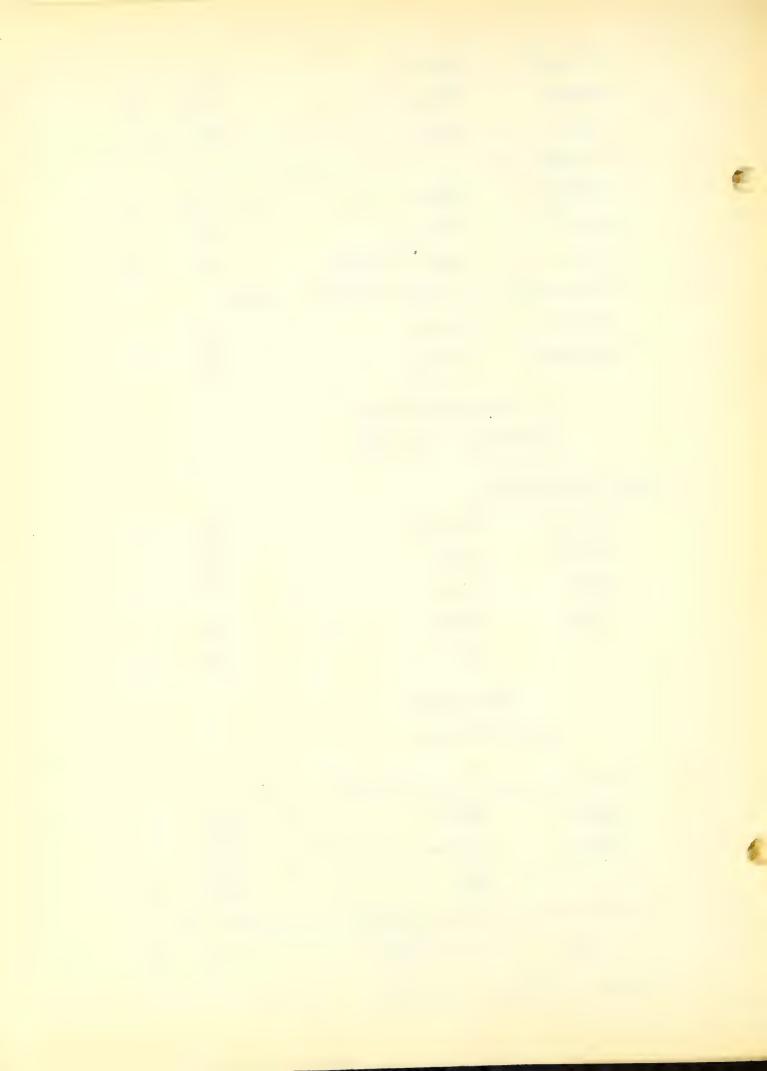
^{#2.} Jesup 1891 Flora & Fauna p. 14.

^{#3.} Rehder 1920 Jour. Arnold Arbor. 1 p. 255.



Rolderness	Roteny 7.	1915	fil.
Tanover	Hanover Haskins		m.
Lebanon	Kennedy	1839	UE.
Fibes vulgare lam.	•		
Bethlehe	Hervey	1378	W.
Manover	filliame	1710	•
Lehanon	Ternald, Hunnewell	1920	17.
Fibes trists Fall.	., var. albinervium (Michx.,	Fernald.	
Poodstock	Fernal d	1113	cuin . 4 g
Holdernees	Fernal d	1915	=.
P	AMILY HAMAMILIDACEAE.		
	LIE L. Witch-Razel.		
and the state of t			
Hamamelis virginis	ana L.		
Pronconia	Kennedy	1210	VE.
"aadetack	Pernald	1717	1/5.
Plymouth	Fernald	1915	The state of
Lebanon	Kennedy	1874	G.
	BFR	1920	W.
F	AVILY POSACRAB.		
	A (Tourn.) b.		
Spirmen letifolia	Borkh. Maadow-Swaet		
Woodstock	Fernald	1915	NE.
Lebanon	Kennedy	1322	3.
	had	1920	
Spiraea latifolia	Borkh., ver. septentrional	is Fernald. ("1.)
Franconia	Fernald, Smiley	1915	* 1 quel

[&]quot;1. Fernald 1917 Rhod. 19 p. 255.



Spiraea tomentosa L., forma albiflora Machr. (1.)

"entworth

"illiams

1903

a.

DOBARIA 4.Er.

Sorbaria sorbifolia (L.)A.Br.

Holderness Chundersen, Lowenstein

1914

Fisis (Tourn.)L.

Pyrus arbutifolia (L.)L.f., var. atropurpurea (Britton)Robinson.

Ashland

Fernald

1916

TE.

Pyrus melanocarpa (lichs.) "illd.

Holderness

Botany 7.

1915

Pyrus americana (Marsh.) DD. Countain Ash.

Franconia

Fernald, Smiley

1915

TE.

Woodstock

Kennedy

183

ME.

Pyrus dumose (Freene) Fernald. (P. sitcheneis of Manuel. 2.)

Franconia

. Faxon

1 304

G.,NE.

"andetock

Wernald

1715

DEED.

aterville Cushman

1712

85.

AMULANCHIER Medic. Juneberry.

Amelanchier laevis diegand. (A. canadensis of Manual. 3.)

Franconia	Faxon	1892,1895	ne.,3.
Lincoln	Wm.Boott	1855	J.
arren	Enowlton	1027	PSK.
Lebanon	Kennedy	1889	AT III

#1Macbride 1915 Phod. 17 p.142.

#2. Fernald 1921 Phod. 25 p. 266.

13. Wiegand 1912 Shod. 14 p. 154.



```
anclanchier canadensis (L.) edicus. (A.canadensis, var. Botrycium
                                      of anual. (1.)
                     BFH
                                                 1727
                                                          3 191
    Lebanon
  Amelanchier atolonifera Wiegand. (A.oblongifolia of Manuel. 2.)
                                                       172.
    Fath
                     Pease
                                                 1925
                                                1915 13.
                    Ternal d
   Plymouth
                                                        717.
   tehland
                     Fernald
                                                 1916
  Amelanchier sanguines (Pursh.) DO. (A.spicate of Manual. 3.)
                                                 1016 15.
     Path
                     . ease
                                                 1917
                                                       2.777
   Haverhill
                    Fernald
                                                 1920 /5.
                     P. P. P.
     Lebanon
  Amelanchier fartrangene (Tausch.) Roemer. (A.oligocarpa of Manual. #4.)
                                                1 192 ....
     Franconia
               Texon
                                                 1894
                                                        71 7
                     filliams
                                                 1915
                                                        ME.
                      Pernald, Imiley
                                                         1.50
                                                 1771
                                                         115.
                     Flint
     Benton
                      Paron
                                                 1386
                                                         G.
                                                         NE.
                     Knowlton
                                                 1923
     arren
  Amelanchier Fartramiana I laevis
                                                 1855
                                                         10
   Lincoln "m.Boott
             CRAT EGUS L.
                         Hawthorn.
  Crataegus rotumdifolia Moench., var. Vaxoni (Sarg.)lgileston.
     Franconia
                     C. Faxon
                                            1901,1909, 0.
                                                1907 3.
                     Kennedy
41. Niegand 1912 Phod. 14 p. 150.
#2. Wlegand 1912 Rhod. 14 p. 144.
13. Wiegand 1912 hod. 14 v. 138.
```

#4. Wiegand 1912 Rhod. 14 p. 158.



.ratae us roanensis Ashe.

Fernald

1917

7675

Tratagrus macrantha bodd.

Peported by 'esin from Lyme, infield, Hanover (1.), no specimen seen.

Lebenon Kennedy 1887,1874 3., Th.

Frataegus macranthe Lodd., var. succulenta (Schrad.) Egglesto .

Saverhill

"erneld

1917

FRAGARIA (Tourn.)L. Strawberry.

Vragaria virginiana ucheane.

Moodstock

Fernald

1915

Moldernees

Fernald

1015

. 9

TE.

Tragaria virginiana : uchesne., var. terranovae (1vob.) fernald : fiegand (2)

Lincoln

Kennedy

1889

7.

Woodstock

Fernald

1915

NE.

Lebanon

Kennedy

1837

NE.

Fragaria vesca L.

Lebanon

ar H

1929

1 10

The IEP TA 1118.

Taldsteinia fragarisides (ichx.) Trattinick. Barren Ltrawberry.

Jrford

Svenson

1921

NE.

"anover

Bickard

1946

20

BS.

Lebanon

Loveland

7 onredy

1887

NE.

1839,1395

11 . 1

Pease

1907

10

Faton, Fernald, Tinnewell 1920

3.27

11. Jesup 1891 Flora Fauna p. 13.

2. Fernald & legand 1911 Phod. 13 p. 106.



101 / ILLa I. Ginquefoil.

Putentilla ar	rite Purch.
---------------	-------------

Potentilla arrita Pur	reh.			
Hanover	Reported	by Jesun('l.), no snec	isen see	n.
Lebenon	î en u e	19	77	E.
Jotentilla morvesica	U., var.	hirauta (_ichx.) .chm.	(F.gons	peliensis
			of Man	ual. 2.)
Franconia	Fennedy	19	07	
Senton	illiams	1 >	77	•
. otentilla norvegica	b., var.	villeneis ichx.(f.son	erellens	is: -0.?.
		(5.8%)	Pica of	Wenung, 5.)
loodstock	'ernald	10	15	• ,
Potentilla ersentéa	i.			
Franconia	Kennedy	1)	10	G.
ondeville	Tilliame	19	03	Ú.
Lebanon	BFH	19	20	. ·
Potentilla recta L.				
arren	illiams	19	10	2.
Benton	Emerton	19	13	89.
Holderness	lunderse	n, bowenstein 19	114	* F.
Lebanon	Heakine	10	115	
Potentilla Potbineia	na Jakes.			
Franconia	Endicott	13	397	·. •
	Fernald,	Smilev 19	15	· · ·
Potentilla paluetris	(L.)Scop	•		

1670 7.

Infield Rennedy

^{11.} Jesup 1891 Flora & Pauna p. 13.

^{12.} Fernald 1926 Bhod. 28 p.214.

^{2. 11 11 11 11}



Potentilla tridentata Ait.

Franconia	Faron	1335	₩V.
	Fernald, Faction, Lailey	1915	#1 .
Panton	illiare	1 7 7	1.
Potentilla canadem	ele L. (purils of enost.	11.)	
Severhill	"ernald	1 717	9
Bath	Fernald	1917	NE.
Lohenon	arx	1920	· ·
stentilla simpler	Tiche. (F. canafemila J' in	nul.	
Toodetock	2 stade 1 y	1 1165	9
Plymouth	Knowlton	1915	NE.
Lebanon	Kennedy	1887	G.
	HF H	1920	•
stentilla simplex	Clohy., var. celvescens Tern	ald. (.cm	adensis, var.
		: lanks	x of Manual. 1.)
podetock	ernold	1915	18.
FILLIAN	MULA (fourn.) Mill.		
filicondula ruira	(Hill.) Mahingon.		
iarover	illiems	1010	1.
GEUM L	. Avens.		

Unite considence Jacq.

Flymouth Fernald 1915 II.

Lebanon illiams 1913 3.

1. ernald 1011 thic. 33 a.



Teum canadense Jac	., for a plandilosim 'er:	nold esther	nv. (1.)
lion ver	illiams	1910	G.
Teum vir inienum '			
Lincoln	Cennedy	1801	
מו לייולרכים ונו בנו בנו בנו	1116.		
Trandunia	™s xon	1337,1395	III.
	ller	1370	777
Dem strictur it.			
Tranc éri e	Filler	1000	· .
nour rivele b.			
erren	illiors	1710	
flenover	deckins	191=	•
hebenon	Toskins	lule	s man
	DMA	1920	₩.
Jour Jeokii - irah.			
Franconie	Tm.Roott	1363	-
	Tamur.	1.327	1., 12.
	Ternold, sailer, Jackson	7.37	100.
Liversore	Teos a	1915	
1(0)(035	(Fourn.)L.		
lubus idness L., v	ar. strisosus (ichx.) axi	.m. (2.)	
ranconia	*ennedy	1901	TE.
Tincoln	Pernald	1917	п.
podetock	Pernald	1917	7 × 10
Lebanon	BWH	1920	19.

^{1.} Fernald & eatherby 1972 Rhod. 24 p. 48.

^{2.} Fernald 1919 Phod. 21 p. 96.



t ibis ideeus L., v. 1	. canadensis / ichardson	. (1.)	
racton	Fernald	1917	17.
Abodatock	Fernald	1917	NI.
Rubac entalis I			
Plymouth	Fernald	1915	
Hanover	"illiame	1717	. 0
Lehanon	o अर्थु	1720	
Aubus odoratus L.			
aeton	Terneld	1917	т.
arren	"illiams	1 707	. •
lvnouth	Fernald	1915	11.
Sridgemater	llowe	1900	BS.
Lebanon	Kennedy	1 391	G.
	ANH	1,20	17.
Aubus pubescens laf.	. (A.triflorus of Vanus	1. 2.)	
Fanconia	a.Roott	1350	Π.
	Kennedy	1890	31.
Holderness	fermald	1715	NE.
Letenon	Fernald, Hunnewell	1920	15.
Rubus allegheniensi	s Porter.		
Lincoln	Pernald	1917	•
's: etock	Fernald	1915,1917	HE.
Thornton	Fernald	1917	
Bath	Fernald	1917	T.
Haverhill	Fernald	1917	%
l valuatily	Sernald	1917	NE.
Lehanon	BFH	1927	WE.

^{1.} Pernald 1919 Ahod. 21 n. 27.

^{2.} Blanchard 1909 Mhod. 11 p. 236.



station sands Blackherries.

In this section of the must abus I have followed the rork of reinerd and eiterson whose treatment of this group is probably the best at the present time. The enceier are listed in their alreabetical order instead of in their natural order.

huhus canadensis i.

ranconia	PAYON	1936,1909	
eth	"ermald	1917	Dis.
Lincoln	Fernald	1)17	
ometock	· Sando J G	1914,1917	
Thornton	Fernald	1917	٠.
Plynoith	ternald	1917	•
latus elementalas	Manchard.		
Bath	Fernald	1917	•
hincoln	Fernald	1917	,
oudetock	Fer ald	1 21 7	=7.
insrnton	ernald	1 11 7	12.
Flymouth	Fernald	1917	
Fibus fla elleris	Tilld. (H.vill	peus of anual. 1.)	
1-11-00	"ernald	1715	•
whis frondreus "	irel. (M.recurv	ens of Henual. 2.)	
poretock	(exha)	1715	7.
Haverhill	Fernald	1917	WE.
Masouth	ernald	1919,1917	7 7 0

- 1. reiseré e seitersen 1920 (t. r. 20. ta. 11. 12 1. 5.
- 2. reinerd . eitersen 1/23 t. nr. vn. ta. '. . l? n. .l.



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ubus hisoidas L.
                  ernald
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  Wat as per met as "lanchard.
   Bath ernald
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    Lincoln
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                Fernald
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    Thornton
    Waverhill
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    Varian
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   Lincoln
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    Toodetook
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    Thornton
                 Fernald
                                      1 71 7
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    Plan, suth Fernald
                                          1717
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  Juhus vermontanus lanchard.
    bodstock
                  ernald
                                      1915,1917
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  Tubis allechesionsis X setosus (R. "andicoulis of Manuel. 1.)
    Francusia Kennedy
                                         1 27 7
  Nutra Prilovonus | canademais or .canademais ! flacell ris
                           (P.multiformis of Manuel.
                                     1917
    Lincoln
                  Fernald
    podletock
                  Fernald
                                      1918,1917
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   Thornton
                  Wernald
                                        1917
    Plymouth Pernald
                                          1717
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1. Treinerd & Feltersen 1920 t. r. vr. ta. Eul. 217 n. (1.
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2. Trainers & elisters (2) 1. r. wr. to. 11. 217 o. 21.



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Ruhie canadensis & meraratus
     Path
                   ernald
                                              1717
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                   "erneln
     Lincoln
                                              1/17
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  Table fla ellare : Transmis (h.plicatifullis Flanchard. 1.)
     Fally .
                    Ternald
                                              1317
  Tubus fronducus & setorus (h.abbrevians of en el. 2.
     , idetuck
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     auent m
                   erneld
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  Tubes highlight tetorus ( .triffons Planchard. .incons of Janual. 2.)
     incoln
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     Socialis c
                   記事に別る」と
                                         1915, 1917
                                                       1 .
     Thornton
                   Fernald
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                                              1917
                  Fornald
     1 11 11/2
                                             131-
                                                       WE.
  "ubus setis is vermontanus (R. vermontar is, ver. viridifolius Flancherd. 1.)
     Lincola
                   rneld
                                              1917
                                                       .
     2 Substee
                  Fernald
                                         1915, 1917
                                                       .
     Thornton
                   Fernald
                                              1917
                                                      7/1
  Rubus recurvicaulis Blanchard. (Status uncertain. #1.)
     Incol-
                   Ternold
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     padetser
                   fernald
                                         1715, 1017
                                                       Mr.
     Thornton
                   Fernald
                                              1917
                                                       .
  Hubus severus Prainerd. I tatus incertain.
     Ulne of h
                  Permald
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     a wat ack
                  Ferrali
                                         1915, 1917
                                                       111.
     Thornton
                  Fernald
                                              1 .17
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2. reinerd : reitersen 171) (t. ur. xn. re. d. 117 . 65.
j. Trainerd deitersen 1920 Tt. ver. Cro.: ta. 11. 217 m. 77.
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Tell mares	91.8	In.
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eth!	804m	Colling, oraș	17,1	•
nie 1 no	enege	undersen, Lowenstei	1 114	r •
		fernald	1715	•
llanov	er	illians	1911	
(r Li)p	erabar	Howe	1901	
rist) <u>[</u>	dorner	j + .	•
Lalian	1 0	11 /	1927	•

Att att (tour.). arimony.

Wirl with a rynossula silr.

Pt - nith	ernal	1 41	
ri opia e vint	a dicha.		
ethi niem	colline	1834	
Minosla	ornal?	1 27 50	•
arren	1111-0.0	1 110	э.
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et en an	s unactive	1012	

hous (tourn. 1). soe.

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rancomia	' o x o n	1887,105	E. , 1111.
riandver	Perorted by Je up; 1.),	no ereciden	seen.
Literat	310	1927	IF.

1. Jest 1 1 Plore t Leans p. 17.



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Took ciner orea i.
  rren
               1 1771eme
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"anurer illiere
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  iston Teror
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         FAITHE ( ... rn.) L.
Prunus teroting Torh.
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frome vir inlana fr.
  Tranconia Cennedv
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grunus nenner ! vanion '.f.
 Premorie Payon
                                     J. .
  Holderness
             Poteny 1.
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  Intelion
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- 1. Ferneld 1918 Phod. 20 p. 91.
- 2. Fernald 1922 Rhod. 25 p. 71.



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	ableni		1.11	b
	Eminue Inpir in the	it, (r. 1) a of tarial.	.)	
	·2 = 作用	Formali	1 + 1 .	
	pitale or fla	farjr.	1 }	3.
		'ernald, northon	,} ,	٠
	shlami	errald	1 216	•
	Hanover	Tenuntad by Tesson 5.1, no	sone in the	2 (441) •
	runus ni re lit.			
	"ethlaha	Vexuo	10%	0.
	radu mia	eron If	3 (6,1) ?	
	'a i de ana	Botany 7.	` #	e
	8 - 01	TAY BURENOWAY		
		. Tourn.)L. loves.	. m . 4 1	
	A 1 1/24 A	on the ine and and		
	Irifolii. nr. tarae I			
	10-10-51	arnald	1915	•
	101 danier	Tuningsen, Lowenstein	100	,
	trifulita renene L.			
	1 arns c	mdersen, Dranstell	1914	•
	THE LIGHT THE STATE OF THE STAT			
	lin" cone	un lereen, Lorenstein	7 ,7 3	
	trifolium « Parlunt.	•		
	1. J. 1. J. 3 (1. 8.)	Colline	(15.)(10-
	Mal erness	Junderson, Lamenstein	3904	-
	trifulium era caben	9 L.		
	HATIOTST	fillis v	191/2	•
7	. ernald 1/2% Hhod	. 25 n. /1.		
5	.Fernald 1 MJ Whod	. 25 % 67.		

3. Jeeus 13/1 Flora a suna m. 12.



Will TW Journ. Will. Event Florer.

wallighur afficia	slie (D. /Dam.			
Tenaver	rillats		•	
Aelt. Thur othe Da	er.			
a metac	Vermel d	1:15	•	
Tan Filtry	Millome	1 - 2 10		
ALT (A)	GALUE (Tourn.)L.			
Latin expenditions	e var. Orunetanone Termelo.			
Seria.	, ଡ଼ଳ ୬ ବ			
(Sac)	Dick (refoil.			
lessufias mudiflo	rm l., c.			
laverbill	Formeld	1 / 1 1		
legioli. grandiflor m (valt.) M.				
Trile's.	Lowell	1 2. 6	11.	
overhill	Termald	+ 717		
anteorth	Willess	1 2		
11 veouth	erneld	1.1	**.	
eesadi / Ollienii Tarl.				
P1 - outh	"erneld	1915		
<u> </u>	. ≘noecv	1 > .*	. •	
ter television de la tur (1./10.				
31-1-3-01	Linde:	d.oft	•	
een, i laander	se (L.; .			
parue	r 68 3 6	100	•	
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! ehanum (emmedy

1730,1335 ., 7 .



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SSEDGILE Canadanse / illenii
  of July
                ernald
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         ichx. Bush laver.
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  axon exon
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been ore a provide ( atc.) Writton. (1. Trutescens of angel. 1.)
  Just ones.
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        Hills (Tourn) L. Fare.
Tiols were L.
  Herritaline ores
                                      11111
  Tolloruses underson, Lomenstein
                                    1 11/
         sal JS (Foerh. ) Ladwig. Troundwit.
Infos timma Dench.
  Plan puth Fernale
                                      1 77 5
               inowlton
                                  1917,1971
  Hall mean & Maersen, Lowenstein
                                     1 ,1
        MUNICARY, 11. " or Pean at.
confidence monorce (L., 11.
  entrorth illiams
                                     1933
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  : I wouth Answitch
                                     1 +17
                                             1, .
  Molderness lindersen, Lowenstein
                                     1972
                                             F.
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ORDER OF MIAL 9

PAUS'Y DUINTUACHAL

Jakufa L. Good Correl.

Oxalia montana Baf.	. (U.Acetosella of lanual.	1.;	
Bethlehem	Collins	1891	G.
Pranconia	lores.	1839	11.
Lincoln	iennedv	1370	es.
obletack	Fernald	171-	197.
erren	illions	1933	. •
Holderness	inderson, i omenstein	1 714	4
Febanon	ern.	()20	•
Oxalis europea Tor	don. (O.Corniculate of Manu	el. 2.;	
Franconia	ennedy	1910	W.
arren	illiams	1907	0.
Tolderness	Gundersen, Lowenstein	1914	71.
Jebanon	ora.	1920	
Oralis europea For	don., farme cymosa(cmall) ic	rand. (2.)	
Henover	illians	1710	*
F	ELY DEPARTACIAN		
OFFAT I	W. (Tourn. L. Transsvill.		
eresion is nelli	i ritton.		
ienwer	20926	1 8 26	=.
In other	office. toresoill.		
rodium lious rium	(I.)L'Ner.		
Lebanon	Tetlors	1893	G.

^{1.} Fernald (22) had. 22 h. 145.

^{&#}x27;2. lierand 1925 Shod. 27 n.117-12, 15-12.



FAMILY POLYGALACEAE

Polyto	la na	uci"olia	11111.
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Maverhill	Permald	1717	
lolderness	ernald	1 715	•
lanover	Thivers	1335	=1.
	iastine	1017	•
Lehanun	ennedy	1336	•
	3) H.	1 (20	
Tolumia rolymans	elt.		
lvasuth	ernaid	1915	175
Tolymple semiline	on I.		
Upl derness	prendon	1 0 1	

FAMILY MIPHERSTACEAR

ACALYPHA L. Three- Seeded Mercurv.

Actions withing to t.

Lebanon	ennedy	1 70	٠

EUPHORBIA L. Sourge.

unbor is hireute . orr., ie and.

davorhill	Feare	1913	
Lebanon	Kennedy		•

Tiphorbia mudulita L.

obdetock	Fernal -	1,915	=1.
flynouth	erneld	1915	Œ.
ienover	illians	1,710	-

apporbis corollata L.

a.cton	athera	1977	
U. 2 . 7 . 7			



Eurhorbie maricias i..

older car under englammetein 18 ...

PAULE TO LITTE I WASLAS

M'TI foll . 'ater 'areart.

Collitriche oluntris ..

Finfield Kennedy 1237 .

UTUE SAPINULGIE

FAMILY EMPETRACEAS

. . . . (tourn.) . Growlerr.

Empetrum nigrum L.

Fernald, Jackson, Smiley 1915

Benton Blake (Reported by Jesup, #1., no specimen seen)

Wolderness undersen, Lawenstein 1/1 // ...

mnetrum strugure freum Fernald in and (2.)

Josilauke (Jenton) Feertor 1911 RD.

FAMILY ANACARDIACEAT

RHUS L. Sumach.

Finus typhine L.

"nodetock	Fernald	1910	•
olderness	undersen, spensteln	1914	•
Manover	Fickerd	1065	G.
Lehenon	Kennedy	1912	•

1. Tesus 1291 /lors & Fauna s. 40.

2. Fernald & Wiegand 1913 Rhod. 15 p.214.



Hips labra L.

Haverhill	Termold	1917	
1 ma outh	Fernald	1 11	e
Uplearness	Amderson, Livenstein	: 172	
tanaver	eel estun	3 ' '	
Labarun	ennony	· · · · ·	•
	end	2 /2 ~	•

This curallina L.

classicath	ernald	* *** *** •
(Introvueus	egotted by Tanup()	. / , == == == == == == == == == == == == =

Thue Toxicadendrum I.

irran	111100	7 7 7 7	
27 7 16 2	riald	3 15 6	•
. oʻri. m	27(1)	1 (52.7)	•

FAMILY ACTIFOLIAUNAP

I'lk . Wolly

Iler corticillate (L.) ray. lack lder.

Franconia	Kennedy	1907,1910	G., NE.
folderness	underson, Lorenstein	1 712	•
Leberon	Cennedy	1000	E.

Waster W. af. countain olly.

Lemonanthus sucrounts (h.) irel.

Holderness	Botany 7.	1915	NE.
finculn	Kennedv	13)1	
lexandria	ich	137	

1. Jesus 101 Tora & Fauma 1. 10.



FAMILY INCOME.

EELA VRUE L.

.575	3	•	ø	1	90	13	0	c	c	et.		2		1	c	7		
-	7	CIL	я	0	2	ul	Ber	-	ko	2	8.2	-	6	1,2	-		ı.	

arrea	illians	1908	4
. lvno ith	ernald, noutless	1215	7=.
i etanon	11.4	1923	и.

F. ILY - HISDEAL .

:TAPHYLEA L. Bladder Nut.

Staphylea trifolia L.

Leuanon	BITS	1923	HF.

LELY LUCY

AUT. (.barn.)L. Laple.

cer nennsylvanioum L.

cer pennsylvanicum			
Holderness	Potent 7.	1915	•
Canaan	in low	1913	NE.
Lebanon	ernald, iunnerell	1920	
cer spicatum lan.			
Franconia	im. loott	1355	•
	innewell	1711	•
	t toin	ב דול וַ	•
nincoln	w. Poots	1 255	•
aterville	ันะ ^ท อลท	1912	PS.
lvwouth	Porner		
blderness	Fotory 7.	1915	10.
Hansver	·ic-ard	13/16	-
Lebanon	sennedv	1330	•

ernald, Jannewell

1920



Acer saccharum Marsh.

arren illiome 1))) Let anon ennedy 18.7 - 12.0 Fernald, Munnerell 1:11 wor anotherinum L. . !] i ems llangv r 3.010 "chen m 'erneld, Munnerell .] >) Wer rulinum 1. entworth illians 1 3 ielanon nr-4 05 1923

CAMERY TEN & TAR

Esselide I. pres-Chestnut.

escalas laira illd.

Hansver hivers 1902

JAMES THANKALL

AN INT THAT THE

Iff J. U. (Iourn.) L. Bucktoorn.

Themnus alrifolia "Her.

Sethlehem France 1017

andan shorted by Jesin (1.), no sheet on sean.

CEANOTHUS L. Red-Root.

Tranuthus a ericanus 1. em Jersev Isa.

'averhill -r.ald 1917 H.

Debanum enorted by Tesum, 1.), no speck am see ...

1. Jesup Flora & Fauna p. 9.



POST V LESS ENV

- (FIT - 1 -) Manch. Merca of Manual. 1.)

Fartismuclis.	vitaces Ferr. Hitch. (700)	vitaces of	amual. 1.,
i ranconia	. 8830	()))	•
	100111	1/10	•
71	IFI: (Tourn.) Orape.		
"itie lacr e co	I.		
shover	urhank	1171	. •
Titis vulnina			
arren	illine	1933	•
Flonsith	erneld, inowlton	1 71	•
	and the same of th		

iltie	00780-3	Alisa	ernald.	(2.)
-------	---------	-------	---------	-------

Bath	Fernald	1917	•
Flymouth	Fernald	1 1 7	
olderwess	Concevell	1 551	
field	7 E 17	1878	•
Lebanon	Kennedy		•
	Leti	1 220	

JUSE LVALE

FARILY TILIACEAE

MI. (Zoum.) L. la word.

Illia mericana i..

9	owistock	ernald	1)1 "	١٠.
١	arren	1111348	7) 2	

^{1.} Wiegand & Eames 1924 Cornell Univ. gr. Exp. Sta. Nem. 92 p. 296.



entworth	Williams	1908	
Flowsith	lercal?	1915	0.
Lebanun	/enneav	1=72,1874	17.
	2-8	7727	0.

BULLY OF THE

"A (tour.)L. Mallow.

Malva moschata L.

Le an a 1014 T.

HIBISCUS L. Rose Mallow.

dibiscus Trionus L.

Henover Reported by Jesup(1.), no specimen seen.

Lebanon Kennedy 1391 .

MI EL Y LUBALLO

PAMILY HYPERIDAUR F

TYPHRICH (Yourn.)L. t. John's-wort.

1390,1912

Hypericum Ascyron L.

Hypericum punctatum fam.

Flymouth Fernald, inswitten 1915

Tarren illiams 1993

Lebanon Sartow 1376

Evericum ellipticum Jook.

Bethlehem Jaron, i. 1395

1. Jesup 1371 Flora & auna p. 7.

Lebanon Zennedy



rancovia	Faron	1 772	0
oodstock	er agld	٠) ١ =	
Warren	Faron	रू ० १ त	7.
Holdernese	"Imnewell	1921	TE.
Lanaen	inslow	1013	4
Typericam matilum !	•		
Franconia	sennedy	1217	٥.
lerren	'axon	1095	714.
Holderness	Gundersen, Lowenstein	1914	Th.
Hanover	tarlton	1213	•
Hunericum canadense	1.		
Toodstock	Permeld	1915	Tr.
"aterville	Quelimen	1212	71.
'arren	Fevon	1015	•
Holderness	Bundersen, Lowenstein	1914	TYE
Canaan	inslow	1 71 3	III.
Sypericas virginica	m L.		
Tranconia	r. Poott	1363	G.
Jene n	inslow	1918	•

FAMILY CILIACEAE

HIGITANTHENUM (Tourn.) Mill.

Helianthemum	Bicknellii Fernald.	(Haius	of	anual.	1.)	
Path	ernald			1917		
Plymouth	Fernald			1915		NE.

1. Fernald 1919 Rhod. 21 p. 36-37.



LECHEA (Melm)L.

Leck	1.00	interm	affa	Lego	ett.
70001	7 0 0	ALL UP THE	G U L M	MOLT.	000

Sent worth	illtome	1310	•
.lvrouth	Ferneld	1915	1) " .
Holderness	Faxon	1000	1.
	Rundersen, Lowenstein	1014	777.
Hanover	illings		17 .

TATION TOURS

'I) A (Fourn.) . Violet.

Viola cucullate It.

Bridgewater

Lebanon

Horner

Kennedy

Franconia	Connect	1910	
Leteriun	5 7757	1300	•
Viole letiuscule	Freene.		
Lebenon	्रस	1920	ñ.
Viola modilionace	ea Fursh.		
Lebanon	Kennedy	1337	*
	A 1989	1727	•
Viole dententries	nalis Freene.		
Franconia	"ennedv	1717	G.
Moodetock	Fernald	1715	011.
Holderness	ernald	1915	•
ebanon	Kennedy	1700	7.
	× 4.03	1720	•
Viola fimbriatule	9		
Haverhill	Fernald	1917	Ti.
Plymouth	Fernald, Knowlton	1915	7

17.70

G.

1832

1700



Viola Selkirkii arsh.

Franconia	Faxon	1838,1891,1392	TIE.
	Filler	1820	•
	illiame	19,74	•
Lebenon	Enton	1 320	•
Viola palastris L.			
renconia	Paxon	1 -37	-1.
Benton	egleston	100	1.
Wiols pallens (Panks)	rainerd.		
Lincoln	cennedy	1 3 9 1	7.
Holderness	Sundersen, Lowenste	in 1714	5.5
Viola blande "illd.			
¹ sbanon	! Lik	1920	WE.
Viola incognite Brain	erd.		
Holderness	Fernald	1915	•
Viola remifolis Gray.			
Lebanon	nim	1920	* 7
Viola rotundifolis di	chy.		
Franconia	Filler	1 335	***
	Faron	1272	s '4
. Lincoln	Ternald	1915	• • •
"oodstock	Fernald	1915	• / •
Vaterville	liller	1325	
arren	Williams	1907	
Holderness	Fernald	1915	11.
Lebanon	ЭГН	1920	î.
Viola pubescens Ait.			
Holderness	Fernald	1915	ME.
Lebanon	Haskins	1915	1



Viola eriocarpa Schwein., var. leiocarpa Fernald & Wiegand.

	(%, sc	ebriecila of en	ual. 1.)
Franconia	Faxon	1837,1878	IR.
Fordstock	Ferneld	1915	AE.
Farron	111119000	1907	-5.
Sebanon	Kennedy	1392	G.
	13 [24]	1320	75. 2 •
Viola conspersa I	leichen).		
Hanover	lilliams	1910	7.
Lebanon	Kennedy	1900	· .
	r' 09 8 €	1907	• • •
	BPH	1920	• •
Viola adunca J.E.	Smith. (V.arenaria of /a	nual. '2.)	
% opdatock	Fernald	1915	***
Haverhill	Fernald	1917	· E.
Plymouth	Fernald, Knowlton	1915	11.
dolderness	Fernald	1915	*7 5
Hanover	Tillians	1910	G.
Lebaron	Kennedv	1900	G.
	ease	1907	
	Fernald, Hunnewell	1920	Ψ.,
Viola tricolor L	•		
rarren	Williams	1910	***

^{#1.} Fernald 1921 Rhod. 23 p. 275-6.

^{12.} Brainerd 1913 "hod. 15 p. 196-111.



OR CA MYTRALES

F. HLY INTELLACENCEAE

LI's h. mosewood.

Dirca palustris L.

Haverhill	Fernald	1 21.7	den.
Hanover	Chivers	1902	
Lehanon	Kennedy	1875	G., ME.

TARLY DARKED OF

. Cutor I.F. mel. want hope to les.

Lecodon verticillatus (L.) 11., var. lacvitatus Torr. - ray. (1.)

Wolderness imdersen, howenstein 1911 .

Will I In house, I fe.

Lothrum Salicaria L.

Hanover tevens 1999 .

PALILI JIAOHAGEAR

LJ. This L. valse Loosestrife.

Ludvigia palustris (b.) 111.

Hanover lillians 1910

I. H. PIM L. Millow-Herb.

bilibium argustifolium L. Fireweed.

dolderness undersen, Lowenstein 1912

1. Vernald 1917 Rhod. 19 n. 154.



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Spilobium molle forr.
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Haverhill	Ternald	1717	•
Holdernees	Mundersen, Lowenstein	1214	
	Hunnewell	1321	•
imilobi w densum	Naf.		
Pranconia	C. Paxon, Puller	1370	•
Plyabath	Inchin	1915	•
Holderness	Jundersen, Lowenstein	1914	8
Spilobium colorat	am Mahl.		
Franconia	Paxon	1370	les Se
Letanon	Fennedy	1991	4.
linels meitelia	osum lehm., var. scenocaulo	on (Haussk.)'en	ruslë.
	(ade	enocaulon of W	anuel. l.)
action em	Poron	1990	16.
Franconia	Varon	1830,1371	0., n.

JU JTHIS L. vening Primrose.

Denothers mervifle	ora i. (J. guricata of anua	1. 2.7	
#1 ymouth	inowlton	1927	» • •
Jenothers merennia	th. (Loumila of Tenuel. 3	.)	
Moodstock	werneld	1215	
"olderness	Cunderson, Lowenstein	1014	•
i who will said	Kennedv	1000	

1901

11.

1917

1. Fernald 1918 Phod. 20 p. 25.

Timcoln Kennedy

Plysouth Inswiton

- 2. Wiegand 1924 Rhod. 26 p.3.
- 3. Fennell 1919 Hul. Forr. Bot. lub 46 p. 372.



110

-

1302

ISCASA (Fourn.) L. Inchanter's Wightshade.

Circus: latifolia Mill.lutetiana of Lanual. 1.) Plant 15 Fernald 1917

Roldernes, venson 130" ".

Nanur " "illiame 1915 3.

1915 9.

ires to the fact of the content of t

Sartow

flycouth Fernald 1715 .

Circana ninine la

Lebenun

Tethicles framewell 1976 T.

Transcale finalell fi.

Lister framewell 1976 T.

FAMILY MALU AND AGEAR

AY TOPHYLLIM (Vaill.)L. 'ater Milfoil.

wrightellur verticilation 1., var. nectinatum "allr.

ista on Kannady 1999 7.

Ayriophyllus tenellum Firel.

Prenconia		1267	7.
	- Taxon	18%	<i>.</i> •
Orford	Hartwell	1394	G.
Enfield	enmenty.	1300	•

^{1.} Fernald 1915 Hhod. 17 c. 222-224.

^{2.} Fernald 1917 Hhod. 19 p. 37.



JALL JUR L ALL

FAMILY ANALIACEAE

Tita ('ourn.) ...

Aralia recembes I.	•		
Feth1chem	Hunnewell	1300	
Caterville	ushuan	1912	•
arren	fillions	1907	1.
Bristol	Horner		****
Lebanon	rennedy	1370	
	rease	1300	•
	8/1	ا بارد ا	tt.
aralia hisnida e	rit.		
Franconin	Pernald	1915	•
Arolis nudica dis	I.		٠
loudstock	Fernald	1915	er.
therville.	Bushman	1912	x* =
Tolderness	Ternald	1915	87.
Lebanon	E. H	4 0 00	•
7 × A	X L. Ginseng.		
Panax quinquefoli			
arren	Billiams	1711	# ** ** **
Labanon	iexter	1917	•
Panax trifolium L	. Ground-Nut.		
'podetoch	erneld	1.714	3
Folderness	Fernald	1915	* (F. •
banon	Kennedy	1003 1001	~ , VE



FAMILY SUPPLLIFIED.

51 10 H. (fourn.) L.

	. 3		-	2 1	~ **	1 5 0	T
3017	19	200	44.7	l.	5111	FC	3 .

"entworth	11111040	2 1 13	•
Planouth	Fermal a	1315	•
Holderness	Sundanian, Lowenstein	1 21/	•
Lebanon	/emedy	1 ~ ~ 7	
	A1 1	1 3 77	. 1

The object (form.).

Tydrocotyle americana L.

Littleton	Puswell	1002	•
To iditoch	Ternald	1015	
Holderness	Oundersen, Lowenstein	1 714	11.

JE WEISh Baf. wort icely.

Uscorbize We tomi ('ichr.) larks.

loodetack	Terneld) +1 =	7.
Lehanon	Fernald, Nunnewell	1,200	
Oemorhiza lonsi	stylis (Tor.)		
Penton	11 int	1171	15.
Le ¹ anon	Kennedy	7 197	

MIUM L. Poison Hemlock.

Conium maculatum L.

Hanover	Filllams	1 773
---------	----------	-------



MCUTA L. Toter Combook.

licuta bulbifera L.

Orford	illians	1308	T o
entworth	"illiems	1208	1.
infield	Kennedy	1 = 20	
Manover	ill iams	1910	•

AFI. . . . gravav.

Carum Carvi (.

folderness	Aundersen, Lowenstein	1914	•
Lebanon	ienver	1716	111.

.It. (Pourn.) L. Tater Parents.

sium suave 'alter. (:.cicutaefolium of 'anual. 1.)

Holderness	fundersen, fowenst ein	1914	e , ec
araan	Inelow	1 01 5	2.1 m

o " Not the in the mont.

ryntoteenia camadarsis (1,111.

Lishon	Faxon	1337	•
Sath	nowlton	פוכן	****
Flymouth	Mowlton	1915	•
Pristol	Horner	1332	1.
Lebanon	Tennedy	1846	77.

CII koch.

Zizia airea (L.) Moch. Polden lexander.

Rethlehem	axon	1997	

[&]quot;1. Plake 1915 Thod. 17 p. 171-172.



Toodstock	Pernald	1915	•
"arren	Williams	1 113	
	inowlton	1919	•
Hanover	Veskins	171=	
etanon	Sek -	1,995	,
A . T.I	NACA onlo.		
Pastinace setima	le.		
Holderness	Tone	1916	55.
1= Vc	IRM 6. ow Paranip.		
Heracleum lenstum	ichx.		
Transonia	i. coott.	1 055	: ,
c m	Lilf ida isch.		
Vonitselinum min	ense (h.) P.		
Linuoln	formald	1915	. 4
ing n	'coorted by 'esip' 1. ', no	sieci a in	60.
f.elianon	rennedv	7 " " "	•
	(IPI)	1,100	•
(all :	c (com., h. arrot.		
Laucus arota (.			
dolderne:	izader Jen, Lowensteln	7 77 '	•
inover	"illians	1 21 %	•

1. Jesup 1831 | lora | 'aina -. 16.



FAILLY CALLE

) // www.//. ogwood.

. 2000 10	canaden	03 0 I	
OF LAS	Canada	ST8 114	ė.

ornis canadensis	10 •		
Prenconia	Fernal d	1015	•
	Mussell	1717	3.
"otervi'le	מרושלרני	- · ·	-
, din ou	inorlton	1) ' 7	
folderases	dunderson, howenstein	171.	-
i chanon	iaskine	1 715	-1.
	860	1.380	7
Cornue rivose las	arck. (.circinata of aqua	1. 1.)	
71 vmo ath	Fernald	1915	00.
Holderness	Gunderson, Howenstein	1914	100
arren	Fillians	1911	•
"ansver	lint; restricted by lesur	(2.),no sne	ciaen seen.
corrue the ili			
ertworth	fillians	1009	3.
Tebanon	'ennedy	1590	** *
	filliams	1117	•
ornus Farnici ")	shme (?.)		
Cehenoi	rennedy	1370	¥ •
Cornus stolonifer	a ichr.		
"In outh	Fernald	1915	•
Manover	lillions	1919	1.
Lebanon	TY1	1920	31.

^{1.} Felia r 1770 Thud. 12 p. 122.

^{2.} Jesun 1271 Flora & Fauna p. 18.

^{3.} Kuchme 1000 Partenflore 43 p. 538.



Tornus alterrifulia 1.f.

Lebanon 1780

1100 4161

FAULT TOP CO.C.

The Arch. Pippissons.

Ohisephile wordlate	(1,1)	litt., var.	cistolantica	01. e.(1.)
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lator illo	ushmen	1916	. •
folderness	om ersen, Lowenstein	1914	10.
Lehanon	1279	132)	- 1

My at Stalish. Jac-lowered ryrola.

Moneses uniflore (h.) rey.

Rethleher	Pon e e	1913	
Wolderness	Tummersen, bowenstein	1 11:	•
	ur∙e	1316	•
Hanover	terort	19/3	a.
	"illieme	1710	O.,
Lebenor	connedy	1890	•
	Jackina	3 4)	

Pyrole minor ".

Franconia	Terneld, Emilev	1 11 %	
Lincoln	: 9 XOn	3000	× •
"aferville	nre	1 7 70	E1.
Evrnle securde L.			
ethlehen	"illiams	1335	•

^{1.} Blake 1917 Bhod. 19 p.241.



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Fincoln Kennedy
                                        1939
                                                NE.
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                 [[ann: [
                                        1 11 7 !
   soc taken
                 1000316
                                        3 73 55
                                                .
                                        1 220
                                                .
   Letanon
                 3044 30
  F role chlorauthe w.
  Folderrers Ammierean, Losenetein
                                      3 22 0
                                                White.
                                        1 200
   1 ar or or i
                                                3.
  Forole of tor mucha we ware no woifelts formald. (1.)
   'oudetoe' armald
                                        7.34.0
 Pyrole ellistica Mutt.
   Franconio (uscall
                                                7
                                       1020
   eterv 1
               'aphyon
                                                . .
   Walnerress Cunderson, Lumenstein
                                        101/
                                                .
                                        3005
   Fangver
                 temart
                                                11.
  Purole retundifolia h., var. emericana ( est.) hernald.
                                (F.americana of anial. 2.)
   Tranconia (mesell
                                                ...
                 fermald
                                        1 77 5
                                                .
    71 m outh
                Hone
                                        1 17/
                                                VE.
   Holderness
  Lebenon
                                         7353
                                                .
  . vrola asarifolia ichv.
                                                0.
                                         1 115
   Internal Tacking
          APOIN I. Indian Cine.
  Monotrona + L'Iora D.
  ?] vmouth ; r
                                        1 215
                                        1914
                                               111
   olderness 'undersen, Lowenstein
1. Fernald 1 2 had. 27 h. al.
2. Ternald 1999 Nod. 22 9. 122.
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Monotropa Hypopitys L.

Tarren Illians 1919 ...
Holderness Eindersen, Lowenstein 1914 ...

PTT SEORA att.

Pterospora andromedes Mutt.

bano

Tanover Ohivers 1905

Reported by Jesus (1.), no specimen seen.

Labrador Tea.

Ledum groenlandicum Jeder.

LEDUM L.

Francomia Kennedy 1912 .

Fernald, miley 1915 NT.

Livermore Lane 1878 G.

Hanover fennedy 1992 1.

penorted by Jesup (1.) from Orange, Canaan, and Lebanon, no specimens seen.

RHODODENDFON L.

Rhododendron nudiflorum (L.)Torr.

Lebanon 1837 .

Phododendrow mudiflorum (L.) Torr., var. roseum (Loisel.) legend

(F.canescens of anual. 2.)

Bath Pease 1926 NE.

Rhododendron viscosum (L.)Torr.

Lebanon Haskins 1915

1. Jesup 1891 Flora & Pauna n. 26.

2. Wiegand 1924 Mod. 26 p. 4.



Thododendron canadense (L.)BIF. Thodora.

Franconia	Kennedy	1 717	G.
	Fernald, miley	191%	
arren	Williams	1210	G.

Reported by Jesun (1.) from Flymouth, Hanover, and Canaan, no specimens seen.

WALL IN L. Laurel

Kalmia latifolia L	. Mountain Laurel.		
Holderness	Bundersen, Lowenstein	1914	Mr.
Ashland	memorted by Jesus("1.)	, no specimen	seen.
Xalmia angustifoli	a Lheep Laurel.		
Franconia	illians	1908	
	Fernald, Umiley	1916	116
Lincoln	Jennedy	1891	m.
Holderness	Jundersen, Lowenstein	1912,	ME.
Lebanon	Eaton	1915	TITL.
Kalmia polifolia *	ans. Pale Laurel.		
Bethlehem	axon	1379,1331	4.,110.
Franconia	m.2 jott	1855	G
	Fernald, Smilev	1915	~ ~ ×**
Lisbon	Faxon	1837	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Lincoln	Kennedy	1991	MT.
Hanover	Femorted by Jesus(1.)	, no specimen	seen.
Enfield	Kennedy	1890	ng cal ∰

1894 G.

Kennedy

Lebanon

^{11.} Jesup 1891 Flora & Fauna p. 26.



PYTTO NE velieb.

Pirllodoce	coerules	(L.) Bab.
------------	----------	-----------

Franconia	Ferneld	1915	9
-----------	---------	------	---

CHONDA D.

Andromeda sleuconhylla bink.

Franconia	.m.Poott	1863	. •
Lisbon	Faxon	18°7,1890	٠, ٠,
infield	Fennedy	1870	71.
! ebenon	Kennedy	1.894	7

CHAMAEDAPHNE Moench. Cassandra.

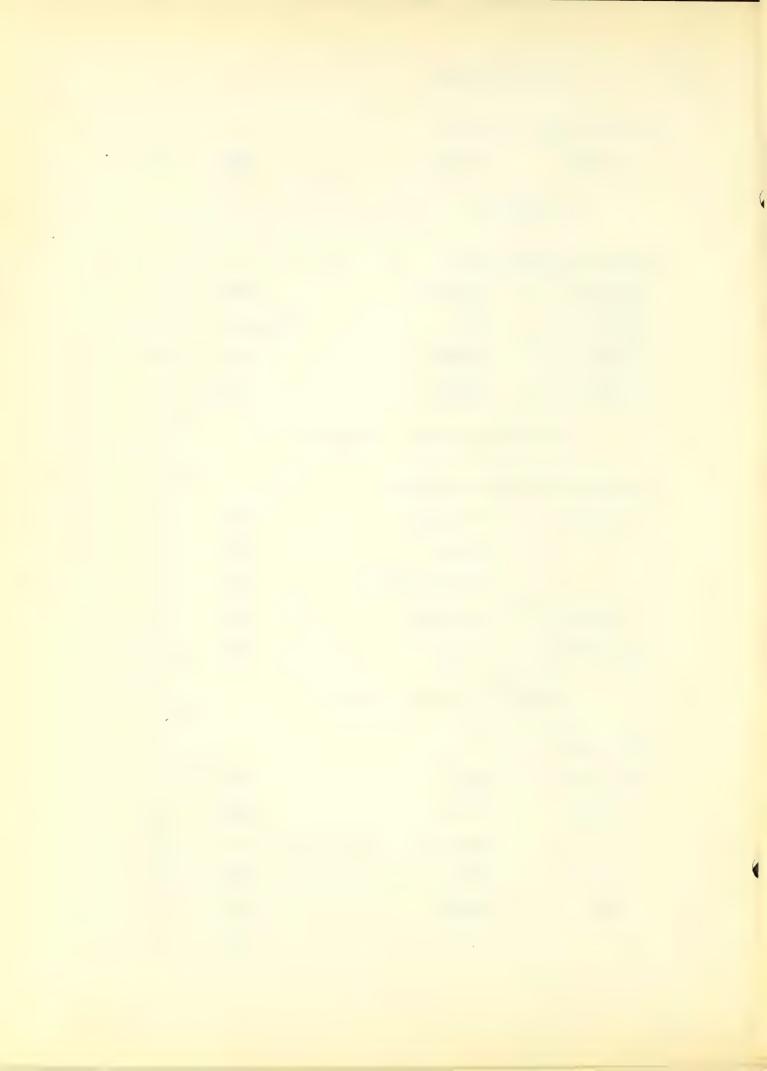
Chamaedaphne calvoulata (L.) sench.

' anconia	Williams	1903	~ ·
	Kennedy	1910	7.
	Fernald, Smiley	1715	₩.
entworth	Williams	1238	э.
Holderness	Boteny 7	1915	10).

D. I. L. Trailing arbutus.

Leiraca recens b.

Franconia	Faxon	1833	÷.
Plymouth	Wernald	1915	71.
	(nowlton	1917	mr.
Hanover	Barton	1835	W.
Lebanon	Kennedy	1.325	Ġ.
	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1920	Mp.



B. H.THERIA (Falm. C.

laultheria	procumbens i.	heckerberry.
------------	---------------	--------------

ranconia	Tessell		~ ·
roudstock	ernald	1915	ME.
Holderness	Fernald	1715	t .
	_venson	1 221	195.
Hanover	tewart	3 308	o.
Debanyn	0.0	1 320	195.

Gaultheria procumtens L., forma elongata Evenson. (1.)

Holderness Swenson 1971 M".

I To-T Philos. done. Searberry.

Arotoetenhylpe Uva-urei (L.) Enrenc., var. coactilis Fernald (acbride. (2.)

Path Tease 1726

.HIU/TWW meliab. Traccing movberry.

Whiorenes hispidula (b.) (%).

rethlehes	Collins	1 - 91	•
Franconia	Mm.Boott	1 355	19.
	Faxon	1871	
	Russell	1917	C.
Woodstock	Fuller	1325	Ţ,
aterwille	Cushman	1912	r)
Renton	Williams	1907	G.
Holdernees	Bundersen, Lowenstein	1312	•
	ernald	1915	•

^{1.} Sveneon 1923 thod. 25 p. 194.

^{2.} ernald & Lacbride 1914 thod. 16 p. 212.



GAYLL. A IA HM. Huckleberry.

evlassecia haccata ('ang.)', och.

Bath	Fernald	1917	NE.
Haverhill	Ternald	1917	a

Reported by Jesus (1.) from Henover and Lebaman, no specimens seen.

Garlussacia baccata ("ang.) . Noch., forma elaucocaroa ("obinion.) Mackenzie("2.)

1917 V

TACHENEUM I.

Vaccinium penneylvanicum hem.

Franconia	Faxon	1897	
	Fernald, miley	1916	TV.
Renton	"illions	1977	13.
Plymouth	Perneld	1915	· · · · · · · · •
Lebanon	287	1323	AP.

Vaccinium pennsylvanicum Lam., var. angustifolium (Ait.) Tray.

Franconia	Ternald, Jackson, Smilev	1915	NT.

Vaccinium canadense Kalm.

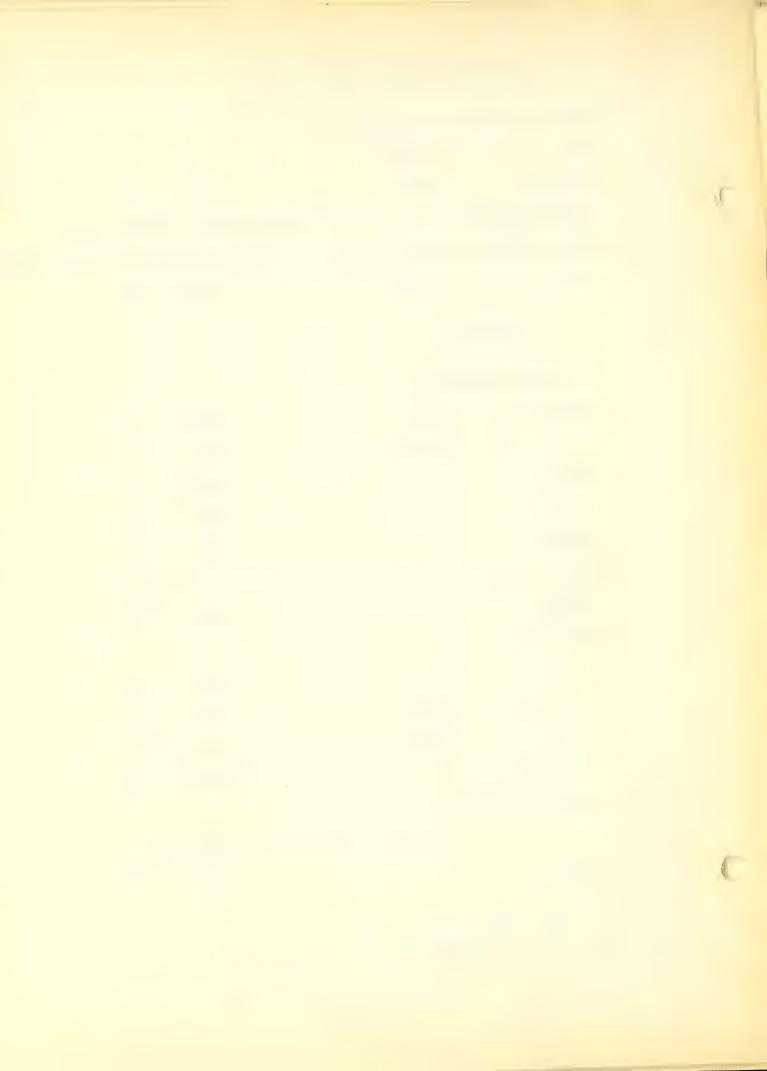
incoln	lennedy	1 333	TE.
Taterville	.en	1712	n,
Enfield	Kennedy	1890	G.
Lebanon	Eaton	1920	WE.

Vaccinium vacillans Kalm.

Hanover	Reported	by	Jesup(#1.),	no	specimen	seen.
Lebanon	SPH				1)27	

1. Jesup 1891 Flora t Fauna n. 25.

^{12.} Mackenzie 1907 Torreya 7 p. 60.



	2.00		
Taccinium atrocoro	um (Brav.) Keller		
ofield	Kennedv	ال د د ز ا	Ìø
Vaccini m liginos	num b., ver. albinum lipe	1.(1.)	
Franconia	No. Roott	1.355	WE.
	Fernald, Jackson	1715	
enton	lilliams	1777	G.
	.erton	1912	BS.
arren	relection	1970	\=.
Vaccinium ulicinos	ean h., vor. habeacens he	nge. (2.) (Prot	eably var.alpi
Franconia	St, John	191.8	1 - 0
	Fernald, Smiley	1915	(r.,
Vaccinium caespito	sum Michx.		
Franconia	Fernald, Smilev	1 115	78.
iath	F 08.60	1 226	
setshee	Ternald	19151916	10.
Livermore	. en 86	1 313	10.
Vaccintum Vitis-Id	daca L., var. minus Lodd.		
Franconia	axon	1392	
	ernald, sailev	1 715	•
	" 168 ell		1.
Live more	%m.Boott	1967	VE.
Benton	"illiame	1777	1.
	Emerton	1912	# / .
Vaccinium Oxycoce	28 1, .		
Franconia	Kennedy	1910	G.
	Wernald, miley	1715	Tr.

2. " " " p.23.



Lincoln	Fuller	1285	î e
infield	Kennedy	1370	* 1 · 1 · •
Lebanon	Paundeon	1908	1 e
Veccinium mecroc	erpon Ait.		
Varren	Williams	1993	3.
Aynouth	Ferneld	1915	
	Pemily DIAPENSIAGRAS		

it p 51 .

Lianguaia lapponica L.

Franconia	Collins	1891	NE.

STORE FRITTING.

TARRESCAMENTAL

IVSI WHIL (Pourn.)b. Loosestrife.

Lyeicachie - adrifolia L.

	Waverhill	Fernald	1917	11.
	lentworth	Milliane	Ĩ àus	•
	Plymouth	Fernald	1915	
	"olderness	lundersen, Lowenstein	1 714.	•
	Hanover	tewart	1709	4 •
	Lebenon	EFE	1920	NE.
Х.	li simachia produc	ta (Gray)Fernald.		
	oodstock	Fernald	191-	₩.
	Lysimachia terres	trie (1)RSP.		
	Woodstock	Fernald	1915	NE.
		Poble, ilaun	1925	
	Foldarness	Wodersen lowerstein	1 314	100



Lysimachia Turmlaria L.

arren	illiame	1 37 7	6
Molderness	Funderson, Tomenstein	1214	₩.
	‴une	1916	
Hansver	Williams	1910	-
hanin	ennedv	1376	. •

Later JIE . Col.

Steironesa ciliatom (1.) af.

.line th	line th Fernald		•	
Letanou	อกเลย่า	1335		

THE PAUL B.

Frientalis Foreslis	Nef. (L.acericana of .anual.	1.1
Lebanon	BFH	1929

MUZIN DETERMINES

FAULLY STARTE

" . I M. (Surn.) L. Neh.

Fraxinus americana L.

"atanvilla line

a por virie	Hope	1915	•
arren	Williams	1908	13.
raxinus airre	arsh.		
rentworth	illiame	1917	* •
acasile t	ennedv, šesun	1390	٠.
	114	1000	

-AMILY A TINIMBAT

^{1.} Blanchard 1909 Thod. 11 p.236-7.



GENTIANA (Tourn.) L.

Gentlana or	inita	Froel.	Fringed	entian.
-------------	-------	--------	---------	---------

Trancomia Mennedy 1910 ".

lenorted by Jesung 1.) From Lyme and lenover, no speciment seen.

Tentiana quinquefolia b.

Titton dervey

Uplderness Farm 135,13% .

allover eported by Tesus(1.), no snecimen sern.

Uslanon fennedy 1374 .

Hastins 101' ...

Mentiana classa Taf. 2.

Franconia	erret	1371	•
	Ahler, Nussell	1)17	• 9 •
ishon	Lannedy		
ath	. ea se	1925	•
1 v ati	nowlton	1715	~
Tanover	illians	1910	a.
Lebanon	ennody	1 = 70	ĕ.
	liaskins	1914	7.

IT NAVIHA (vourn.) b. Dekhean.

Menyanthes trifoliate L., var. minor ichx. 3.

Hansen Tenorted by Jesoo (1.), no specimens seen.

- 1. Jesus 1391 Flora & Fauna n. 28.
- 2. "ernald 1917 Thod. 19 n. 147-).
- 3. 'ernald 1999 Whod. 31 m. 199-3.



FI HIY . . . LICAT.

Ac. Y. Charmelle Logbane.

Anocyn am	endr	260	emif	olli	III.
-----------	------	-----	------	------	------

Rolderness Sundersen, Lowenstein 1914 .

ipocynum cannahinum U., var. glaberriaum (. 1.

Plymouth 'ernald 1915 .

FLIBY ALGEBRAS STATE

Walletta (Tourn.)L. ileverd.

reoletias incernata i.

Hath . 0986 1000 NE. anover 1111 190.8 1910 0. colepies incornate b., ver. pulchra (thrb. Fers. 'nfield emedy 13.19 T. Asclenias syriaca L. oodstock Sernald 1915 TT. Hanover "illiams T. 1919

Asclenias phy tolac oides Fursh.

Lebanon Villiams 1919 ...

JULAR POLICE ARAIN

FIGURE TYLEROPHYLLAGE C.

IV DEHYUL " (Fourn.) L.

Avdrumbylluz virginianum L.

Servey 1916 T.



FAULLY PURAGENAGEAU

YWOTLOSSUM (fourn.)L.

Cynoglossum officinale L.

Lebenon Rennedy 1870 ...

cynoglossum boresle Fernald.

Franconia Faxon 1886,1897 16.

Ishanon Temorted by Jesup ("1.), no specimen seen.

A CLIA Johnston.

Wackelia virginiana (1.) Johnston. (Lannole virginiana of anual. 2.)

Manover Rickard 1747 TT.

Lebanon Peace 1901 ...

POTAGO I.

Borago officinalia L.

liebon Lreke

YUNUTIS (Fupp.) | lorget - e- ot.

Avosotis scornicides L.

Plymouth Sorner T.

Lebanon Haskins 1915 NE.

Ivosotis lexe Lehm.

Tempver Tempried by Jesun (12.), no specilen seen.

'engan Pease 170/ IT.

Myosotis arvensis (L.)Hill.

Hansver Fenorted by Jesus (3.), no specimen seen.

- 1. Jesus 1891 Flora & Fauna s. 23.
- 2. Johnston 1923 Cont. Fray Werb. (8 9. 45.
- 3. Jesup 1391 Flora & Fains o. 29.



ialifia (.parn.)!.

chium vulcare 1.

"anover 'enorted by Jesun(1.), no specimen seen.

Lebanon Jesse 1999

TOTAL PAMILY

VINIEUA (Tourn.) b.

Verbone angustifolia Michx.

Tenover Jesup 13% 3.

Werbens hastata L.

Holderness Sundersen, bowenstein 1916 11.

THE THE PARTY OF

Skullcap.

cutellaria lateriffora '. od- or 'willcan.

illians 1210 1.

cutellarie epilotiifolia Hamilton. (.. ralericulata of Manuel. 2.)

entworth "illiams 1903 "K.

(an over Itemart 1908 ".

(illiams 1910 ".

HEPETA L.

Neveta Cataria L. Catnip.

Lebanon Kennedy 1893 .

1. Jesus 1331 flora : Fains p. 29.

\$2. Fernald 1921 Rhod. 23 p. 85-36.



PRUNFILLA L.

Frunella vulteris !	. ingl-411.
---------------------	-------------

Woodstock .	Fernald	1915	WA.
ol erness	immersen, Lowenstein	1000	•
rundla milestic	'., sar. lanceoleta (Certon.	ernali. (1./
incoln	Tornald	171%	•
Toudstock	ervald	1916	1
Rierville	ushman	1212	÷ .
Tebanon	: ennedv	18:0	0.

GALEOPSIS L. Hemp Nettle.

Saleopsis Tetrahit L.

nterrille	Moos			1112	•
r e ^r and r	ية المداؤن	dy		1999	
Geleonsis Tetrahit	L., var.	hifida	("benn. Wejeun"	ourt.	2.)
rateryllle	Hone			1310	

1. Julius . otherwort.

Leonarus aritaca i..

War-en	Illiams	1773	*** •
Holderness	Hundersen, Lowenstein	1914	(=.
lachenon	Tennedy	1303	WE.

. J. A La L. forse fint.

conarda fictulosa L., var. ribra 'ray.

Holderness	venson	1001

1. Fernald 1917 ahod. 15 o. 107-104.

^{2.} Fernald & Wiegand 1910 Rhod. 12 p.141.



HIJA Fers.

infield foveland

	1 50 A A W		
Hadeoma pulerioid	os (L.)Fers.		
Haverhill	ernald	1.917	
Holderness	Fundersen, Lowenstein	1914	•
Lebanon	/ennedv	1323	 F •
Layeo	Mar (rourn.)b		
Satureja vulteria	(1.)fritsch.		
¹ ebanon	Xennedy	13,4	
	# 19	1429	
year	. (- W lchx.		
remanthem in flex	uosum (alt. n		
campton	athems	17.1	•
fanover	filliams	1917	
1720	A (Taum.)		
thymas terovitum	i.	4	
Hanover	chivers	1915	9
. YC ⊃₽	118 (fours.)b.		
Lycopus uniflorus	Wichx.		
iermont	illiers	1718	.3 •
Farren	Knowlton	1,27	
lymouth	Fnowlton	1/2"	36.
Tyconus americanu	s whl.		
Manover	illiams	1910	Š.,

1923 16.



tell (ourn.).

1. Jesup 1891 'lora & suns r. 52.

lentha spicata 1.				
folderness	inderson, Luvanstain	1 1		
Wanting pinerita I.		10.000	•	
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Plymouth	ar ent	1375	٠,	
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lenover	lillians	1911	•	
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ieverhill	erneld	1917	•	
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Tolderie s indersen, howenstein 1914

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Pentsteau hirautus (1. 1111d.

Delianou Pease

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Jentstria: l'italia utt. (".laevinatur of armal. f.

"uncol simal" 1994.

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Melono slatra ...

aterville ushaan 1717 .

1. Pennell 1922 Torreya 22 p. 81.

2. Britton & Brown 1913 Ill.Flora 2'nd ed. 3 p.184.



Holderness	owerser, Lowenstein	1,71.1	9
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Holderness	underwes, purenstein	2 22 1.	
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	lua (.o.ra.)L.	i. i.	
		1. 1.	•
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reronino minitiza Mormont	illians		
Perun ca a Pricant	illians a .dhurim.	1911	•
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^{1.} Pennell 1921 Thod. 25 p.10.



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Otricolaria elbha I.			
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1. Jesup 1891 /lora Ferna . 1.



NAME I. Jones.

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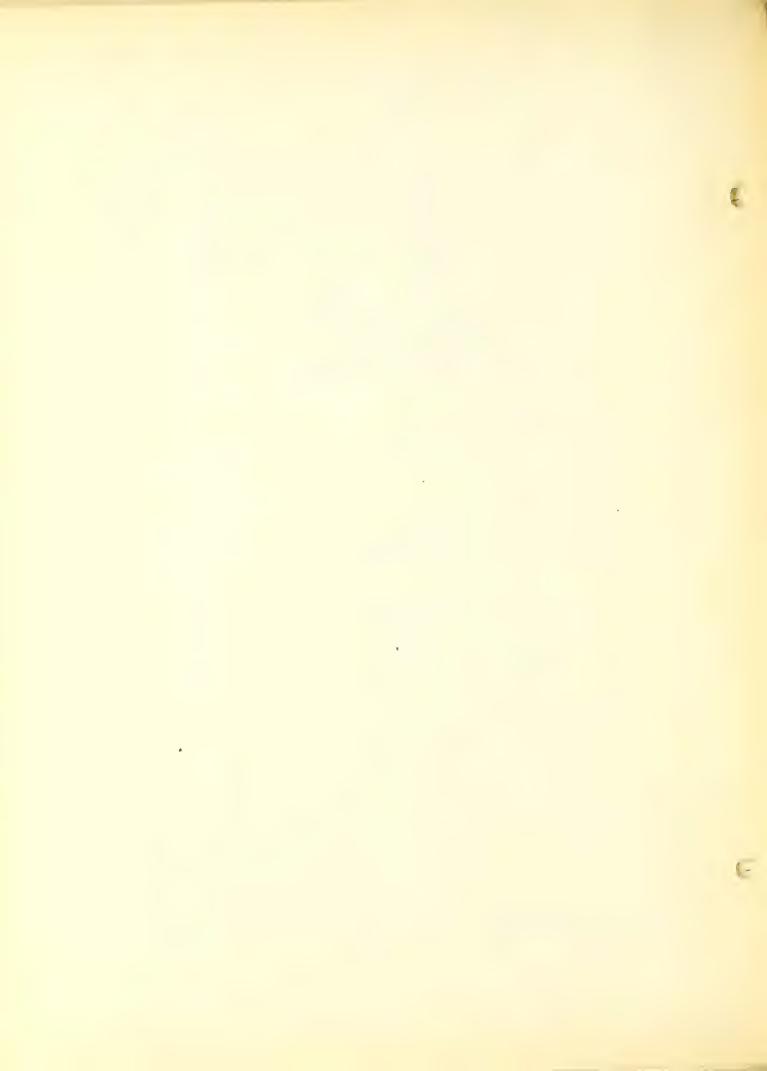
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Salium boreale L., var. intermedium IC. ('1.)				
Holderness	undersen, howenstein	$\gamma = \gamma \setminus I_1$	E.	
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laver till	111120.	, , ,		
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-hornton	Peake	19.4	WE.	
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a rec	illiane	1903	· .	
Lobenon	aire	1927	÷.	
olium triflor:: i	enx.			
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aterville	Jehuan	1912	₹.	
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Holdermen	oundersen, bowenstein	· 🚽 ۱ !	Ŧ.	
AIP-//(I	LA o, Pertrides Ferry.			
litchalle remens '.				
Holderness	undersen, Lowenstein	197/	1	
	Pernald	1 31.		
lanuver	storert.	12.3		
Lebanon	Pernald, Hunnevall	1920	et.	
CEPHALA	ANTHUS L. Buttonbush.			
Desnalanthus occidentalis b.				
entworth	lillians	1917	`•	
eourted from	anean and Flyabuth by Tesun(2.),no sne	cimens seen.	

^{1.} Fernald 1928 Rhod. 30 p.106-107.

^{2.} Jesus 1331 Flora | auna p. 20.



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1121	Jnia .	4877 []	67 11.	Time.

ondation	าราคาส	1015	•
Irh-non	Canaedy	1.21.7	∍.
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Fulfi Julia Julia

II ILLA (Fours.) 111. _uch Honeymuckle.

lervilla Lunicera ill.

aterville	lisimar.	J 21 2	•
Huldernass	underson, Lorenstein	1 21 /	EE.
nfield	ino*1ton	1 225	124
helianon	2-10	1.150	10.

LONICERA L. Honeysuckle

lienover 7775 Heskins Reported rout length - offield by Teaus(2.1,n) anecimens seen. 'onicera villosa (ichx. . ., var. plonis (atom. (ernald. 1.) Franconia Fernald 12. Irmonia ernold, miler 1/15 700 Lonicera taxtarica L. Hanover ihiser. 1000 .

Lonicera canadensis Marsh.

- 1. Ternald 1925 Rhod. 27 p. 1.
- 2. Jean 1891 Flora & Jama n. 19.



1915	NA.
1903	TER .
1812,1396	YE, .
1717	•
1010	•
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	1907 1879,1396 1917 1910

Milla (ronow) . win- lower.

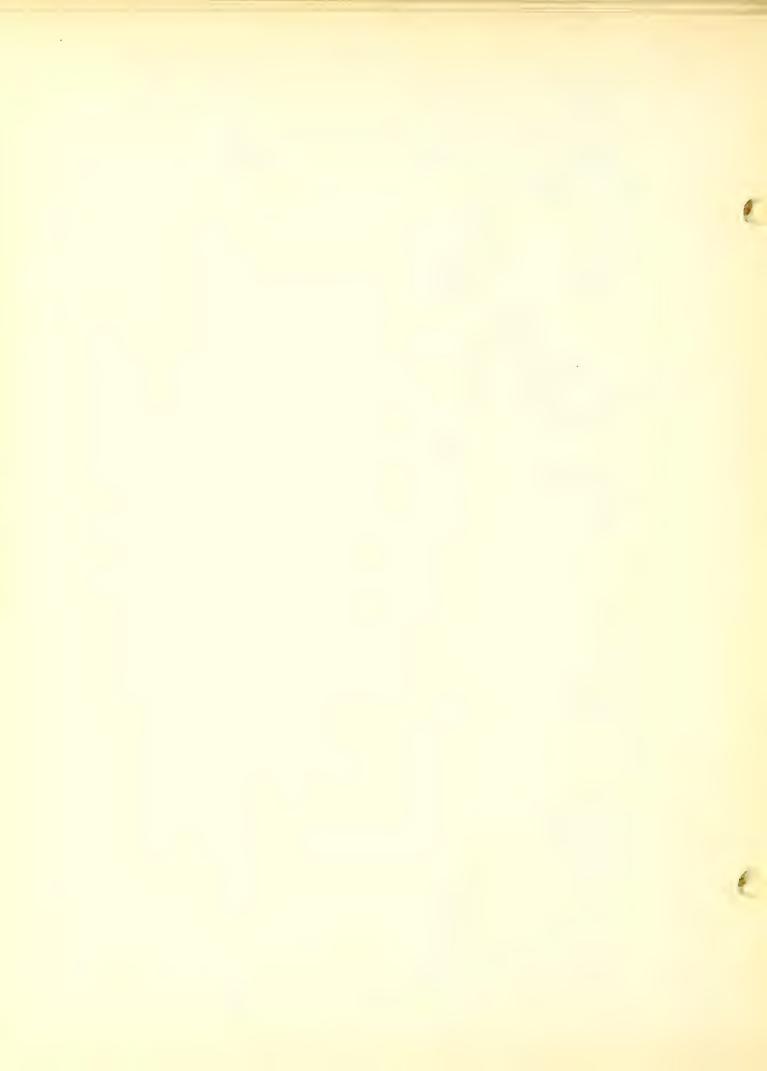
Linnaca burcelis i., var. a ericana (urber. Rehder.

Franconia	loseon	1 = 19	
	Rust ell		•
eterville	Cushcan	1912	C.,
Tebanon	Maskins	1915	•
	-9 (0)(11)	1929	•
	Maskins	1915	

Win Fall (Tourn.).

Viburnum alnifolium arch.

Franconia	inxon	1391,1302	٠, ٠
incoln	Faxon	1904	•
	Kennedy	1 888	•
	im. oott	1355	•
aterville	ichnan	1717	.
blderness	undersen, Lovenstein	1 /1-	
jenover	Rickard	27 €	br.
	·ackine	1,415	17.
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! el anon	"as'cins	1915	
	75.7	1920	



Vibarnam Julue b.,v	ar. emicanum(ill.) it.	11; h=+ ,8h	ranharry.
Franconia	A. Woott	1 30 F	•
	Hupe	1015	ET.
nfield	Kennedy	137	
Fenorted by Jesup	([1.), from Hanover and Lete	anum, no spe	cipens seen.
Vib croum neuciflorum	af.		
Frenconia	aron	7008	•
	fuller	1377	TE.
	fermald, miles	1 71 =	· ·
Penton	illiers	1 9.00	
Viburnum acerifolium	•		
Plymouth	Fernald	1915	NE.
nehenon	linekine	1,45	•
	10.41	1020	•
Witurnum cessinloide	s i.		
Franconia	"m.Poott	1855	NE.
	Hoar	1858	1 .
	****on	1890	G.
	illiems	1908	WF.
	fuscel1		•
Lincoln	Collins, Zennedy	1921	• 3
Fenton	'illiane	1777	ō.
"anover	nanover Reported by Jesun(1.), no specialen seen.		
1 ebanon	Kennedy	1820	13.

1003

releston

^{1.} Jesus 1391 Thora and Fauna o. 19.



LA MUUS (loarn.) L. lder.

. Abacas receases b.

| rencomia | axon | 1339,1392 | F., T. | Lincoln | ennedy | 1133,1390 | ...

THE RESIDENCE OF THE

TALILY UU DARRADEAF

. J. You L.

Licros angulatus L.

languer illians 1910 ...

r Eliza Gold J. Millack I

LaPs M. (lourn.).

Lammanula rotundifolia L. Cluebell

lebanon fenneds 1376 f.

wamnenula apprincides Pursh.

Molderness undersea, Lowenstein 1917 ...

FAMILY LOBELIACEAE

Localia (Flumier.) b.

Lobelia cardinalis L.

entworth illians 1778 ...

emorted by Jesup(1.) from Hanover Hebano, no shee wens seen.

1. Jesus Flora - Fauna p. 25 1371.



Lobelia ericata .aL.

Canaan

	rancola	iilliene	1 302	•
	Menover	illiens	1717	•
L	obelia inflata L.			
	Franconia	Aussell .	1717	
	o idetock	Fernald	1 37	•
	avarville	นสาเลอก	1912	
	arren	lilliens	1218	•
	ilul der nesa	undersen, lowenstein	1910	1
	* at anym	ennedv	1997,1275	.,
ĭ	obelia Lurtionne I.			
	Tranconia	Ahler, Aust all	1 13 7	
	Lincoln	,i a Kon	7 = 41.	•
	entworth	illians	1903	G.

ANTI SOME STAN

TUF ILUTION (fourn.)L. Thorougheart.

upaturiwa aculatus	L. (L. nurpur - DE D., vir.	: will a time or	ioual.)(2.)	
. Tymo ith	"nowlton	1975	11.	
matoriza falcatum	lchx.			
Holderne 8	indersen, howenstein	1914	•	
Timefurium unticaafolium Teichard.				
oterville	เล็กเลลา	1019	. •	
'e inver	ickord	1046	•	

henorted by desup(1.), as smellen .err.

^{1.} Jesup 13)1 Flora Flauna p. 25.

^{2.} Mackenzie 1920 Rhod. 22 p. 57.



LULIUVIII. olden- Ind.

olidago equarrota	inl.					
Franconia	E.Faxon	9 (3)	0			
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7-iabon	' 9701	1897	•			
oudstock	fernald	1,315.				
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aterville	Neurau	1,013	•			
. lymo ath	Fernald	1310	111.			
Tellanon	renned	3	9.			
colidano cameia .	. juncea					
leverhill	ernald	1717	•			
ulidaro caesia i .rarota						
Weverhill	ernald	1917	12.			
Solidago latifolia	L.					
aterville	. ishmari	1012	NE.			
Letanon	√en∩ed v	1332,1231	. , .			
	PPH	1 720				
Solidago bicolor L	•					
woodstock	illians	1)29	•			
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Holderness	Underson, homenstein	j 31 '	100			
Lebanon	Cennedy	3 2 18	•			
colide o macrochyl	la Pursh.					
Franconia	Williams	1 1)4				
Holdernese	Hunderson, Lowenstein	1 -1-	63.			



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colida o macromovila arana, vora furepula eva, ernald.
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    Tranconia
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                    Knorlinn
1. Jenup 1391 lora " (anga c. 2).
2 Fernald 1918 Fhod. 20 p.172.
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	entworth	1111-12	1903	•	
	rren	illiama	1913	•	
	-1 mr.s th	ักว ะ ในอก	1915		
	Talka	'en edy	1 75	•	
	Colidado altiesime	2			
	everhill	rernald	1917		
	Solidago serotina	Ait.			
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	Plymouth	Knowlton	1917	•	
	Lebanon	Zennedy	1390	42.	

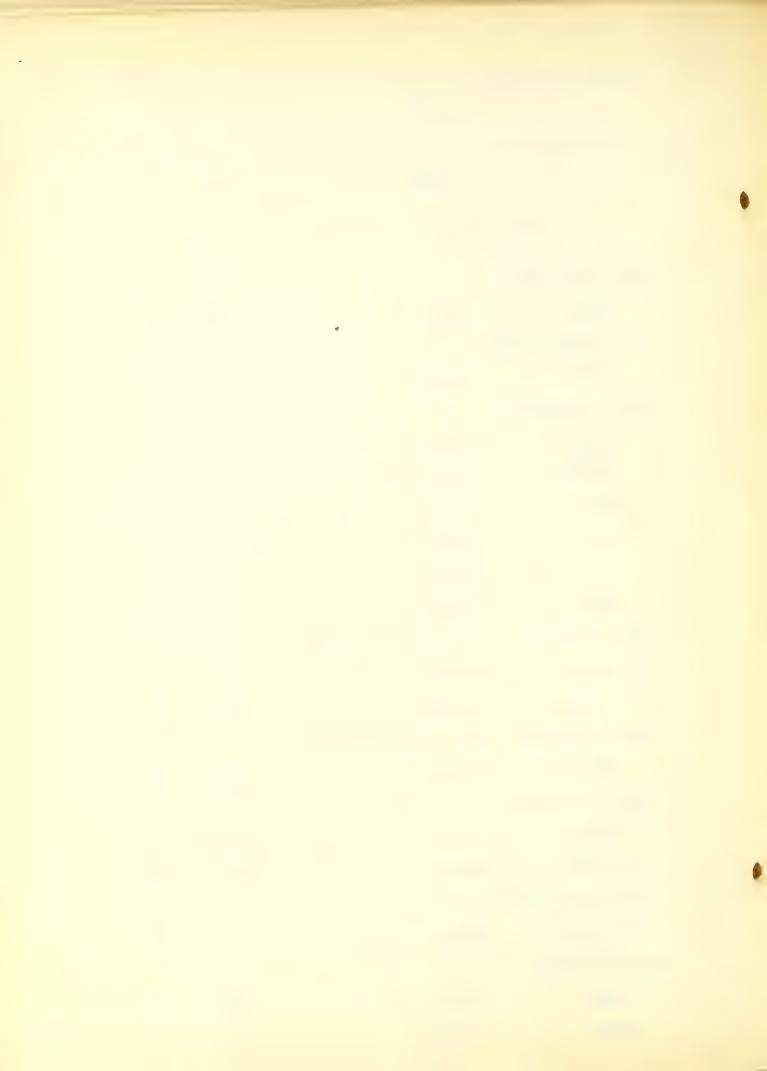


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 Aster radula Ait.
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Aster undulatus L.
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Lebanon

ennedy

1994



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Aster Tradescanti	L.			
ranconis	6 = 5 78	1 116	16.	
etir namic datus	Len.			
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an your oth	in. within	1915	177.	
Inhanon	Pennedu	1 330	- Ti.	
Ast or periodistus Lam., var. bellidiflorus (Filld.) Fur, ess.				
Liebon	, rayar	1:12	1	
"ranconie	F 9 F 7 m	2 . 27	•	
arland	8 X 9 X :	1 3 3 3	•	

^{1.} liegand 1928 Shod. 30 p.174.



Aster louifulus 'ma.								
(montal :	19.	1388,1870	11.					
biebon	laxon	1390,1292,1276	110					
Franconia	Paxon	1337,1400,1302,1307	WE.					
ister longifolius	Janley Vare (111	licaulis Ory.						
1.44. 311	Fazza	1323	٥.					
Franconta	Saxur	1220,1975	-,-					
ster Jvi-bel, ii !	L.							
Fethlehen	"axun	1000	31					
Francolla	1078	1337,1300	· .					
	eni.	3-210	•					
AFFE).	illin	J ¢ 1.	V.					
rlywouth	Ympritus.	1716						
"iston	. a rota	1 .	•					
ctor rolladeus Li	ncl. 1.							
Substack	Ternela	1915	a la company					
Bath	Fernald	1917	WF.					
rlywuth	Ferneld	1915						
eter bardiflorus	1. •							
(intleton	Payot.	2000	ė.					
ethlehen	· aon	1893,17,7	o.					
Lisbon	# WILLIAM	1397,1339,1392,137	7					
Sanconn I.	Fexog	1 117, 1177, 1177	• 9 •					
acter tardiflorus	b., var. re ti	tue Fernald.						
Datileher	i 6 Kun	1900						
Franconia	r.'aron	1389,1470	11.					

^{1.} Fernald 1915 Rhod. 17 p.13-14.



Astas municipus			
ranconia	120.	1323,1-3),1-72	9
sessible	Cusanan	1 12	- ø
1. · · · i is (1.) 11	termedy	134	
leter cinice is h., val	. (ir.us (.ees.,1%)		
Tranuunla	' = xon	1.41.0	•
ster puniceus, van	r. caniesus Lindl.		
rrincon ia	raxon.	1312	0.
aster umbellatus .il:	1.		
O J (H COCK	fernald	1 21	1 0
rlymalti	monlton	1915	E- •
Nolograes.	underson, Lowensta	in 1914	e
eter limeritfolius l			
*45	(ernald	1 31 :	•
Maverhills	i et nal d	1917	11.
g:: ::	illiams	2727	. •
nater acuming us liel	nx.		
Litteton	Lovell	1345	
ranconla	illiame	1 5 7	Mh.
	1 ernald	1915	: •
	i assell	1917	G.
voscetock	ernalc	1910	W.
ilyzsata	.nowlton	1917	n.E.
averviace	·illie	2311	G.
	Jashaan	1110	ēS.
Hanover	rickard	1346	
	illiane	1917	
Aster negoralis alt.			
Bethlehem	Jakes	1-50	
	E. Faxon	1377	١.



	: ' '	. inus	á 3. C.	4.6
	Cameno!	olutor.	1 3	() o
	infinit	Empedy	<i>j.</i>	٠
1.0 4	or a praise lit.,	tr lexei /orter.		
	/ stivi elum	rean, rin, le	2 77	o 9 ' a
	MCB of the	L. Flesbane.		
Trl	Lyrrun milirliae.	loha.		
	"oodstock	Fernald	1,1	+1 = ●
	AFTON	111 Acas	11	G.
	and a sy	Jourson	3	E.
	ប៉ុះបានជ័យដ	Venhacy	: 1/70	ů.
iri	igenom smila iel phic	rus L.		
	h i - tock	Fatrold	1916	. •
	Try t sor	111146	1010	
	I. S. ru	Trint	1 //1	•
	A SVeF	lovart	7 ; 4	•
		111 lame	1710	. •
	Lelenon	and the same of th	13	•
·r	ireron remosus (Tel	Lt.)		
	ancecock	:F:.51 ë	1715	18.0
100	i, (Ton Panjeus (Fal	lt.,, ver. septentrionelis	er nald	vieganê. l.
	rencunia	Taxon.	1 95	
	Lincoln	ernald	1.71%	TE.
	33 0 00K	Tienelo	LALD	CL.
	Ply Jati.	11 201 d	1.45	•
	betation	s.tr) od v	1716	•
Er	igeron canadensis l	Le		
	Taverhill	ercald	1.717	0.
	arren	illiams	1903	A .

1. Fernald & liegand 1913 Rhod. 15 p. 60.



IMMARIA Gaertn.

Antennaria Parlini	i Fernald.		
raverhill	Fernald	1 217	
Flyabath	Terneld	1 21.	ſ 9
Holderness	rerueld	1 37 %	10.
antennaria consder	neis Preere.		
ranconia	axon	1877,1838	0.,20
loodelock	erneld	1.01 =	11.
Woldernese	Fornald	1 31 5	71.
Leianon	4 TH	1 220	TE.
estennaria planta	vinifolia (b.) icher	rda.	
Polderness	lernald	1316	44 .
Lebanon	·FN	1920	•
untennaria follar	Greene.		
Foodstock	Fernald	1915	•
Antennaria pocider	ntalis Trame.		
Rath	Fernald	1917	•
Flymouth	Fernald	1 31=	. } •
elland	Fernald	1716	MT.
Antennaria Braine	rdii Fernald.		
Holderness	Fernald	1915	•
Antennaria neodio	ica Greene.		
Tranconia	T. Taxon	1317	1.
Lincoln	Fernald	1915	NE.
Haverhill	Fernald	1717	ME.
Letanon	T WELL	1 550	=14.
entennaria neddio	ica Greene., var. et	tenuata Fernald. 1.	
ranconia	.Faron	1317	7.
Toudetock	Fernald	1915	777.
.1. Fernald 1898 Pr	oc.Boston to.Nat.Hi	et. 28 p.245.	



Jan Kree	[ermeld	1015	•			
on in the	P410114	1316				
ote orizonalia	sion France, var. Ullaram	l'e 'e · l':	1.			
"rerollia	. raxon	110				
internaria na leo	to Oreme.					
- Lahan	2 371	1/11	•			
Vencunta	Faron	1377,1119	.,//.			
, and or	Perculd	1915				
Lynauthy	Perceld	• 1.	•			
1-1-1	Paras I A	1913	0			
1/1 1	Perenta	1017	•			
Later		1000	9			
hitemanic antelogides "a maild.						
Transpir.	· 11.27	1507	4			
110011000	* naid	1				
15-1-10	1 000 12.4	1100	•			
in ami	Percett	1.41.	•			
Tableman	- item	(1927)	•			
ANAMALIS IC. Everleating.						
(A) to a 1	taces 11, 1111. washing	· e·lagefl· ·				
Translate	Acres 11	1.01.7	•			
1 1000000	Gunder cen, Luwenstein	103	-			
tral enterp	I PANA CO	3 (20)	а.			
Amariali	taces ,var. occid	ontalis				
oy' or'.	. 61 - 1 i	(18)	-			

1. Fernald 1321 Phod. 23 p.236.



GUALWALLIM I. Cudweed

Gnerhalium obturifolium L. (G. nolycephalus of an mal. 1.)							
flywouth	Knowlton	1917	* *				
Gnaphalium decurrens	Ives.						
nedata	Tennedy	1710	^.				
arren	illieme	1910	■.				
Hanover	Lokard	1011	111				
Lebanon	Kennedy	1894	11.				
Anachelium uliginosu	am L.						
folderness	Jundersen, Lowenstein	1914	m.				
O.La L.	Elecarne.						
Inula Helenium L.							
Thornton	are	1915	WE.				
arren	illiame	1 510	3.				
Tolderness	· mdersen, Lowenstein	7.31%	Si.				
Hanover	Illians	1710	₹ .				
Lebanon	Pease	1999	TE.				
R(110)/ 1	A L. one-Flower.						
Tudbeckia hirta L.							
Falderness	Hensham	13)2	g.				
	Gundersen, Lowenstein	1914	NE.				
Rudbeckia laciniata	L.						
Haverhill	Kennedy	1890	0.				
Hanover	Fickard	1246	4.				
Lebanon	Kennedy	1891	13.				

^{1.} Blake 1918 Rhod. 20 p.71.



Welianthus annus L	•		
arren	illiams	1913	7 0
Wellenthus struces	s 5.		
Flymouth	nowlton	1715	NE.
Wellanthus decapets	lus L.		
Littleton	owell] 2 <i>L</i> =	•
Tranconia	Feron	1994,1397	• , •
Thornton	Pense	19.5	•
entworth	"illiams	19 3	
Helianthus tuberosu	s L.		
arren	illieme	1910	1.
L*banon	Tennedy	18 4	. •
BIUTA	In. Tur arîmolê.		
Didene frondose b.			
incoln	illians	13.,	
arren	% illiams	1908	j.
Plymouth	Knowlton	1917,1921	WE.
Bidens cernua L.			
lanover		1339	•
fidens cernas L., ve	er. ellintica liegand.	1.	
Bethlehem	Faxon	J 232	•
lymouth	nowlton	1917	100.
Lebanon	Kennedy	7 33)	-i.

^{1.} fernald 1932 Ahod. 24 p. 207.



ACHILL A (Vaill.)L. arrow.

Achilles Marmics L.

Lebenon ennedy 12.7 .

Achilles Willefolium L.

ath Pease 1726 T.

Lebanon Jennedy 1300 2.

WHAT A THE UM (Tourn.) I. . Ur-eve elev.

Thrysonthemum Daleamite L., var. tenacetoides Boiss.

Tarren illia s 1915 -.

TANACETUM L. Tansy.

snacetum vulpare L., var. criscum 16.

l'iermont illians 1919 .

And .I. i. ormwood.

artemisia blennis illd.

Topdeville filliams 1973 .

Artemisia Absinthium L. Wormwood.

earren illiams 1/10 //.

anover illians 1910 0.

nfield enurted by Temunú 1.ú, nu speciona ne n.

Win U. D (fourn.) . . oltsfoot.

: issilago 'arfara L.

Franconia ..Faxon 1337 ...

1. Jesup 1391 Flora & .auna n. 23.



Holderness	Pundersen, Longmatein	J⇒17	· .
Henover	iitcheock	1332	
Lebanon	Wennedv	1377	35.
	Mernald, Munnewell	1 (2)	
s IUA	la.		
armics collis Cook,	, wer. netioleris Fernald.		
erren	illiams	3 3 2 3	9.
10	(Tours.) I. harvort.		
Tenecio aureus L.			
≥ engan	"inelow	1313	47.
cenecio Cothinsii .	Dakes.		
Sethlehem	. Paron	2.2 /	
Franconia	Faxon	, 275	-
Moctahco	rerusid	1-215	
Senton	illiage	1777	7.
Holderness	Fundersen, Lowenstein	101	WL.
	ernald	1915	WB.
nfield	Knomiton	1 925	RE.
Esnecla pauneroulu	s Wichr., ver. Pelsamitee (w	al.) i ernald.	
	(alcamitae	of lanual.	1.)
eath	Vernald	1)17	
	Pease	1 706	HE.
AFOTI N	IL. Furdock.		
Arctium Leona L.			
Varren	Williams	1908	G.
Hanover	·illieme	1910	.3 •

1. Fernald 1921 Rhod. 25 p.299.



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arcti m minus levah.
```

Molderness undersen, Lowenstein 1910 .

Official (Tourn.) Hill. Toman Phistle.

ireian lanceulatum (L.)Hill. Bull thistle.

Narren Villiams 1978 C.

Tireium discolor (Mil.) - nreng.

Reverhill Percald 1/17

lireiam ousilas (att. mens.

everill ernald 1217 .

'oodstock remald 1915 -

Tarren Tilliams 1903 .

fireium arvense (b.) cop.

Telanon Lennedy 1990

Centaurea Lyanus L. Cachelor's Lutton.

nanover illiams 1910 ...

C\IN I I M (loarn.) L. Whicorv.

Aichorium Intybus ...

Tolderness Sundersen, Lowenstein 1714

Hanover Reported by Jesup(#1.), no specimen seen.

MINIA .chreb. Lwarf Landelion.

Frigia virginica (b.) filld.

Hanover - coorted by Jesus 1.), no specimen seen.

lebanon FFH 1920 W.

1. Jesup 1391 Hora : Fauna p. 24.



```
I . . Allum (Heller.) hudvir. endelion.
T . Racum officinale cher.
  Holderness Hundersen, Towenstein
                                        1 217
                                                 1
                                                 11
                ernald
                                         1,115
  Loberon
                ennedy
                                         1007
larerecum erithrospermin indiz.
                                                 folderness
                 Ternald
                                         7 775
   J. WHUL (Tourn.) h. Low thistle.
Some o mais L.
  Bethlehem St.John
                                         1912
 hoodstock illiams
                                         1973
conchus oleraceus L.
  :lanover "illians
                                         1919
Conchus asper (I.) Hill.
Warren Williams
                                         1908
onchus asner (h.) Will., forma inermis (Wischoff.) 9. deck.
                                                1.
           illiems
  Hanover
                                        1910
   LACTUCA (Tourn.)L. Lettuce.
Lactuca scariola b., var. integrata Bren. 1 odr.
 rren illiame
                                         1979
                                                 .
Lactuca canadensis L.
  podstock ernald
                                         1915
                                                 11.
         illiams
 Parren
                                         1,718
                                                 NE.
Lactuca canadensis L., forma angustines is and.
                                         2.
 %oodstock ernald
                                         1915
                                                77.
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^{1.} Beck 1393 Flora Nieder-Østerreich 2 p.1322.

^{2.} Wiegand 1920 Rhod. 22 p. 11.



```
Lactuca canade sie L., var. interrifolia (Tigel.) Trav. (L. sagittifolia
                                           of Manual. "l.)
                                         1915
                                                 W.
               wernald
  bodstock
                                          1999 0.
arren illiame
lactuca canadensis L., var. obovata ierand., firms etenopoda ierand. 1.
  Tarren Tilliams
                                                 11.
                                          1 203
Lactuca hirauta whl.
                                                  W.
  Woodstock Fernald
                                         1915
                Fernald
                                         1915
                                                  F. .
  Plymouth
  Hanover Villiams
                                                  C.
                                         1919
                                                  7
                                         1323
  Lebanon kennedy
'actuca spicata (Nam.) Hitch.
 Plysoith Knowlton
                                         1715
                                                  .
  Lebanon
                Kennedy
                                          1991
                                                  5.
          F- WANKH - (Vaill.) No. " ttlesnake-" oot.
Trenanthes nama (Birel.) Drr.
  Franconia Fernald
                                         1915
                                                  NE.
Prenanthes Boottii (DC.) Gray.
  Tranconia Ferneld, miley
                                          1 715
                                                  M.
          HITTA IJM (Tourn.) ... Harkweed.
Mieracium aurantiacum L. evil's faint- rush.
  Franconia
                Farlow
                                          1275
                                                  7.
  Woodstock Fernald
                                                  NE.
                                          1915
              Sundermen, Lowenstein
  Holderness
                                         1914
                                                  YE.
               The state of
                                                 MI.
```

1920

Lebanon

^{#1.} Wiegand 1920 Rhod. 22 p. 11.



Mieraciam florentinum all.

Pethlehen	Pease	1724	11.
anaan	l'ease	1 225	. •
Hieraci um panicula	tum L.		
Caterville	vuehmen	1912	****
Flymouth	"nowlton	1917	
Holderness	undersen. I owenstein	1 714	. •
Hieracium panicula	tum b., forme clendulosum "off	fa. 1.	
arren	illiame	1908	1.
Hieraciam scabrum	lichx.		
Franconia	Kennedy	1835	ijř.
Clvmouth	Fromlton	1915	111,
Hieracium canadens	ichx.		
ranconia	Fexon	1890	1 0
arren	"illiams	1203	a.



. TATISTICAL CHOMARY

		ATIVE			THE THIC O		
WILLY.	antire	Aibliblia	1000	Como L	· Vallatas	TOT	AL
Polypodiaceae	27	8				3	5
Jamundacese	?	2					6
Johioglossacese	7						7
Traisetacese	3	3	1			1	2
Lycopodiacese)	6				1	5
elaginellacese	2						2
Isostacese	2	2					4
1 9 X8 C 69 6	1						1
Finaceae	12	1		1		1	4
Enarganiaceae	2	1					2;
Najadaceae	12					1	2
Juncaginaceae	1	1					2
lismaceae	5	1	2				9
Framineae	فيا عد	17	1	19	ℓ_{\dagger}	9	3
yperaceae	1 79	22	1			14	3
.racese	3			1			4
iemnaceae	1						1
Briocaulaceae	1						1
kyridaceae	2						2
ontederiaceae	1						1
Junicaceae	15	6				2	1
Liliaceae	19		1	2	1	2	3
Iridaceae	2						2
Orchidaceae	29	3				3	2



" .ij.T

I WAT HOUSE .

"AILT" S	SPECIES	VARIETIES	FORMS	at the fitt	APBLIE	Fatika	TOTAL
alicaceae	15	2	1	3	1		22
.vricacese	2	1					3
Juglandaceae	2						2
Betalaceas	10	4					14
808008B	C.						5
Irticaceae	2			2			6
Cental aceae	1						1
Inrenthaceae	1						1
ristolochiacese	1.						. 1
olvgonaceae	5			7			12
henopodi*ceae	Provi			3			4
maranthaceae				1			1
Illecebraceae	2	1					3
Caryonhyllacese	7	2		12			21
Portulacaceae	1						1
ceratophyllaceae	1						1
Tumphacaceae	4		1				5
anunculaceae	21	1		3	2		23
Perberidacese	1			1			2
Papaveraceae	1			1			2
Vumariaceae	Ż			1			4
ruciferae	3	1		17	1		26
Fs. edacese	1						1
Larraceniaceae	1						1
Poseraceae	2						2



TIVE

INTRODUCT D

F. C.I.E	HERCILE	å'tl.Ili€	' ' ' ', =	ALFOIL1	MARITOTIS	n 115 .	TOTAL
Crassulaceae				2			2
Saxifra acese	10	1		1			12
Hemamelidacese	1						1
Tusaceae	12	9	3	9	1		34
Leguminasae	12		,	8			20
Oxalidaceae	2		1				3
Geraniaceae	1			1			2
Polvgalaceae	3						2
unhorbiacese	1			2,			5
Callitrichaceae	1						1
Empatracege	2						2
anacardiaceae	4						4
Aquifoliaceae	2						2
clastracese	1						1
Stanhvleaceae	1						1
Aceraceae	5						5
vasindacese				3			1
Rhamnaceae	2						2
Vitaceae	<u> Z</u> ;						4
Tiliaceae	1						1
.alvaceae				5			2
wparicaceae	C						E
istaceae	5						2
Violaceae	15	1		5			18
invmelacese	1						1



?

Industrial PATIV LPROFES TARTIFIES TORM CONCERN MATERIALS TOPIC TOTAL FA TLI'S Lythracese Unagraceae Haloracidaceae Araliaceae mbelliferse

. ornacese Ericaceae 3.6 Liamengiacese Primulaceae Jleaceae Gentianaceae 2, Abucynaceae Asclepiadaceae "vdrophyllaceae Boraginaceae Verbenacese Labiatas

crophilariacese Lentibulariacese Jrobanchaceae hrvmaceae

Dolanaceae

Plantaginaceae Discess

Caprifoliaceae Z



THEFORETS

1 4.1 II. IV	, 1	1/21241	1000	- F v 1	Archain	p _i n e	TATOT
ucurbitaneae	1						1
Campanulacese	2						2
Lobeliaceae	8			1		•	2,
Composite	76	26	4	27	9	1	175
TOTALS	796	151	22	157	18	1	1145
TOT USE TELES FLOBA							
COUNTY W.H.	305	131	34	293	22	<u>i</u>	1297
TOTALS GRAY'S							
MANUAL	3413	766		666	20		4079



TABLE SHOWING THE NUMBER OF SPECIES, V RITTIES, AND FORMS COLUPOTED IN EACH TOWNSHIP.

Littleton	8
Sethlehem	98
Lisbon	47
Lyman	1
Monroe	4
Franconia	296
Livermore	6
Lincoln	97
Easton	4
Landaff)
Bath	2.3
Bartlett Land and Lumber Co.)
Waterville	75
Neymond Grant	0
Thornton	23
Woodstock	195
Benton	19
Haverhill	75
Ellsworth)
Tarren	162
Piermont	6
Cameton	10
Rumney	0



entworth	70
orford	6
Holderness	247
. lymo ith	172
oroton	1
Lorchester	h
Lyme	6
ehland	2.
Bridgewater	10
Rebron	2.
Pristol	12
alezandria	2
Frange	1
ensen	40
anover	24.5
araftun	0
infield	45
Lehanon	204



COLLECTURS AT LATES OF VISITO

- 1927 Jakes, W.
- 1843 Tuckerman, T.
- 1845 Lowell. J. ...
- 1846 Lowell, Fickard
- 1352 Foott, ..
- 1353 Merrill
- 1355 Boott
- 1853 Hoar, Thoreau, H.L.
- 1360 Boott
- 1861 Boott
- 1362 Boott
- 1869 Boott
- 1865 Blake
- 1370 Boott
- 1871 Flint, ". F. , Faxon, C. and E., Lamson Scribner
- 1872 Boott
- 1873 Rodman
- 1874 Plannied, Flint, Robinson, J., Willard
- 1876 Hitchcock, C.H., Huntington, J.H., Jesup, H.G.
- 1377 C. and E. Faxon, Loveland, Pringle,
- 1878 Conant, Land E. Taxon, Hervey, Lane, Loveland, Jesup, Fringle, Lears, Tuckerman
- 1379 C. and V. Faxon, Lane, Freston
- 1830 Minns



- 1882 Bartow, Fuller, Horner
- 1335 Bertow, W. and L. Faxon, Hitchcock, Jesun, Toveland, Flosson, H. W. T.
- 1834 and T. Taxon, losson
- 1885 Bartow, J. and F. Fazon, Fuller, Jesus, Kennedy
- 1336 Sartow, J.and W. Faxon, Kennedy
- 1837 C. and T. Faxon, Flint, Mennedy, Loveland, Figgles
- 1833 ... and .Faxon, Mggleston, Hoar, 'enedy, 'inne, Parlton
- 1339 Colling, C. and F. Fa xon, Collecton, Connedy, Loveland,
 Worse, Closson
- 1390 Lean, Eggleston, ... and T. Fexon, Muller, Jesup, Minns, Wennedy, Tower, Milliams
- 1391 Burbank, Collins, C. and T. Faxon, Jesup, Kennedy, Marret,
 Manning, Morse, Thornton
- 1892 C. and T. Paron, Tenshaw, Jesun, Kennedy, Fichards, Sargent
- 1997 C.and T. Taxon, Fuller, Graves, Wennedy, Pich, Tetlors,
- 1894 T. Paxon, Hartwell, Jesun, Yennedy, Robinson
- 1895 Farlow, Land R. Faxon, Grant, Tennedy, Peace, Largent
- 1396 C.and T. Taxon, Hunrewell, Tennedy, "illiams
- 1897 indicott, and L. Taxon, Tuller, Tennedy, Trince,
- 1398 releston, and ". "axon, "ennedy, Taylor, Tilliams
- 1899 Kennedy, Russell, Taylor
- 1900 Chivers, Towe, Tennedy, Pease
- 1901 . Paxon, Howe, Tennedy, athews, Tease, Tare
- 1902 "sawell, hivers, Howe



- 1977 'hivers, 'all, "ove, Pease
- 1904 Alden, Forbes, 'ennedy
- 1905 pore, Burdock, Tobinson, are
- 1996 unsell
- 1907 . laxon, Kennedy, Lorenz, Mathews, . ease, 'illiams
- 1908 Idmundeon, Huar, Johnson, temart, Hilliams
- 1909 .. Taxon, Largent, 'tevens, Stewart
- 1910 . Faxon, Hope, ennedy, now, aring, illiams
- 1011 Home, "mnewell, ennedy
- 1912 Cushman, merto, Tone, Yennedy, It. John
- 1919 case, heeter, illiams
- 1914 Nundersen, Haskins, lowenstein
- 1915 Fotant 7., hivers, rights, Fernald, Maskins, Jackson, Kennedy, Knowlton, Tease, Tailey, Featherby
- 1716 Fernald, Hervey, Hope, Thowlton
- 1917 thler, Texter, "ernald, fervey, nowlton, ease, Passell haw
- 1913 Lorenz, Tease, inslow
- 1919 Fnowlton, Sease
- 1920 Elanchard, Laton, Fernald, Hunnewell, Inswitzen, Toods
- 1921 Hunnewell, sens, venson
- 1922 Linder, Pease
- 1923 !assett, inowiton, athews, "ease, ivenson
- 1924 Goodrich, Peare
- 1925 Knowlton, Poole, Tilson
- 1926 Lyons, Peace
- 1927 Bill



FRURISTIC COMMITTIONS

making up the flore of an area the size of Srafton County is impossible to make. That certain plant relationships exist dependent upon soil, moisture, temperature, and other factors is a well established fact but the placing of the various plants in their respective groups is a very difficult matter. In the first place different botanists have different standards in separating the various groups. In the second place it is difficult to find plants which are restricted almost entirely to one form of habitat so that only rather general associations can be described. The classification used by Pease (1.) in his work on the flora of Cods County seems to be the best adapted to the conditions found in Grafton County.

The county may be immediately divided into two great classes, (1.) those habitats which are essentially natural and unaffected by the agency of man and (2.) those habitats which have been very definitely modified by man. Each of these classes may be subdivided into several groups.

I.a. Primaeval Evergreen Forest. The primaeval forest which once covered much of the county is now almost entirely destroyed due to the agencies of the lumberman and the pulp manufacturers. Few remnants still remain in the lowlands in inaccessable ravines such as along the fair River in Caterville but most of the primaeval forest which now remains is found on the higher slopes of the mountains in the form of scrub as yet worthless to the paper manufacturers.

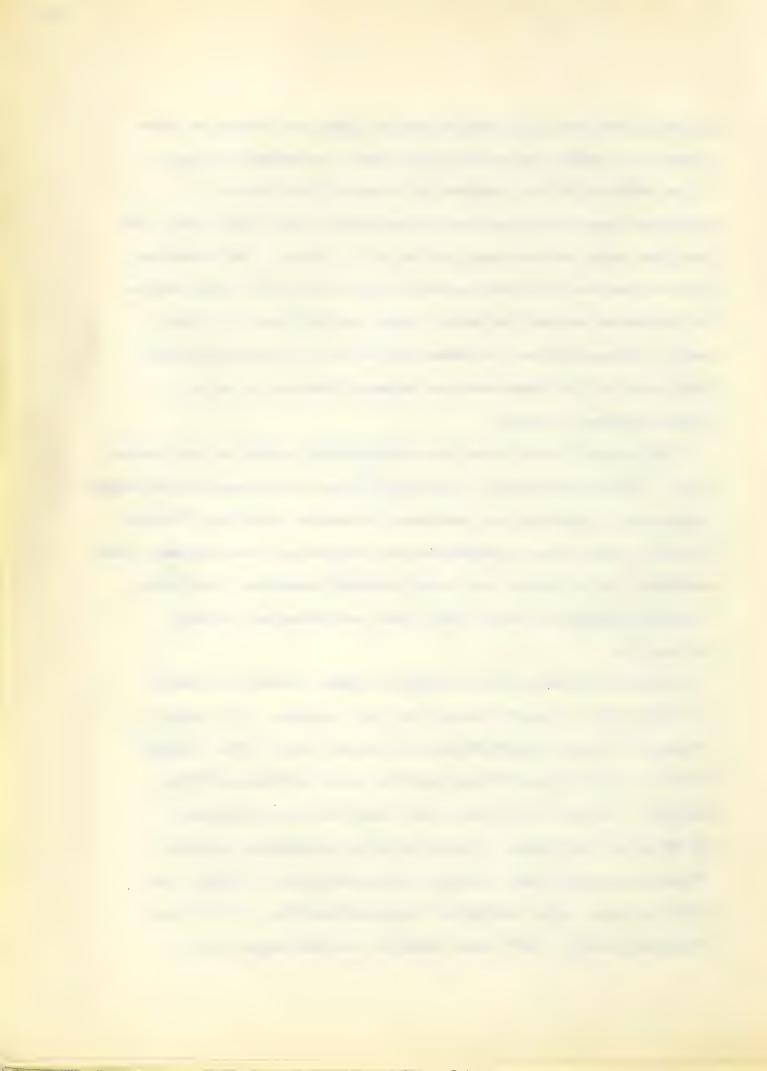
The original soft wood forests were made up largely of Ficea rubra and Abies balsames. Tsuga canadensis was found in commercial

1. Pease 1924 Proc.Bos.Soc.Nat.Hist. 37 /3 n.75-100

present. The white pine was the first tree to be lumbered off and it is now difficult to find specimens of primarval linus strobus. A magnificent tree of this type may be seen about a mile up the lost liver road from North Woodstock near the farm of 1.7. Jordon. The hemlock was also cut from the first for its bark and later to saw into rough boards. The red spruce was used for spars, lumber, and pulp most of it being sent to the paper mills. The balsam fir was at first considered worthless except for Thristmas trees and balsam pillows but is now cut in large quantities for pulp.

This region in which Picea rubra predominates is known as the Canadian zone. Tharacteristic plants of the forest floor of this zone are Thelvoteris Phegopteris, T. spinulosa var. americana, Lvcopodium lucidulum, lintonia borealis, Betula lutea, B. papyrifera var. cordifolia, libes lacustre, Pyrus americana, Oxalis montana, Icer spicatum, Viola incognita, V. renifolia, Chiogenes mispidula, Linnaea borealis var. americana, and Iolidago macrophylla.

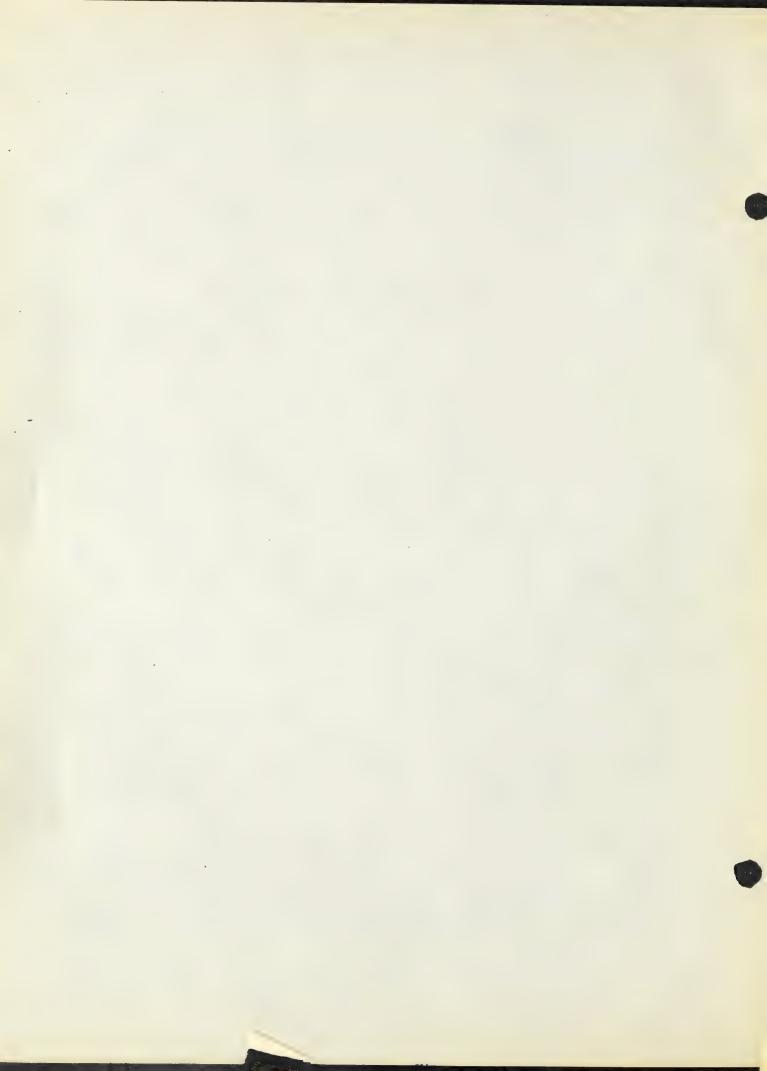
the Picea rubra is largely replaced by Abies baleamea. This region of "Krummholz" or scrut growth forms the Mudsonian zone of life. Mingled with the Abies are found Betula papyrifera var. cordifolia and Fyrus americana. In the floor of the scrub forest are found Thelypteris epinulosa var. americana, Clintonia borealis, Maianthemun canadense, Streptopus roseus, Listera cordata, Contis groenlandica, itella nuda, Oxalis montana, Cornus canadensis, Chiogenes bispidula, Pyrola minor, Trientalis borealis, and Linnaea borealis var. americana; while in



openings among the scrub one finds Lyconodium annotinum var. pungens,
libes lacustre, ".glandulosum, Kalmis angustifolia, Ledum groenlandicum,
libododendron canadense, Vaccinium caespitosum, V.canadense, V.pennsylvanicum
var. angustifolium, V.uliginosum var. alpinum, W.Vitis-Idaea var. minus,
lolidago macronbylla, and L. macronbylla var. thyrsoidea.

chiefly of bies halsemen with some Fices marians and talix "va-ursi and S.herbaces. There is no true timber-line in the Thite nuntains in the sense that the word is used in the West, that is a line at wich trees of sufficient size for lumber stop abruntly. Timber-line in the hite Mountains is used to distinguish the line at which the scrub ceases to grow. In Trafton county this condition exists on only a few of the higher peaks such as those of the Franconia Range.

I.b. Porders of the larger Fivers. While the woods along the shores of the Connecticut, amonopsus, and Femisewasset Divers are not prime val, in certain places they have been left undisturbed for a sufficient length of time to reproduce fairly faithfully the primacyal condition. Among the plants growing in such localities are Thuja occidentalis, Tsusa canadensis, helix piera v.r. falceta, Justans cineres, Elmus americana, and Acer saccharinum. In the alluvial sandy and mucky soils one finds Pteretis nodulosa, lemunda regalis var. spectabilis, Equisatum hiemale var. affine, Loratense, E.scirpoides, Taxus canadensis, Agrostis perennans, aperella Hystrix var. Bigeloviana, Lilepyrum erectum, Fronus ciliatus, B.altiseimus, E.virginicus, Oryzopsis asperifolia, Canicum clandesticum, Foa alsodes, Tarex Tuckermani, Luzula saltuensis, Imilacina



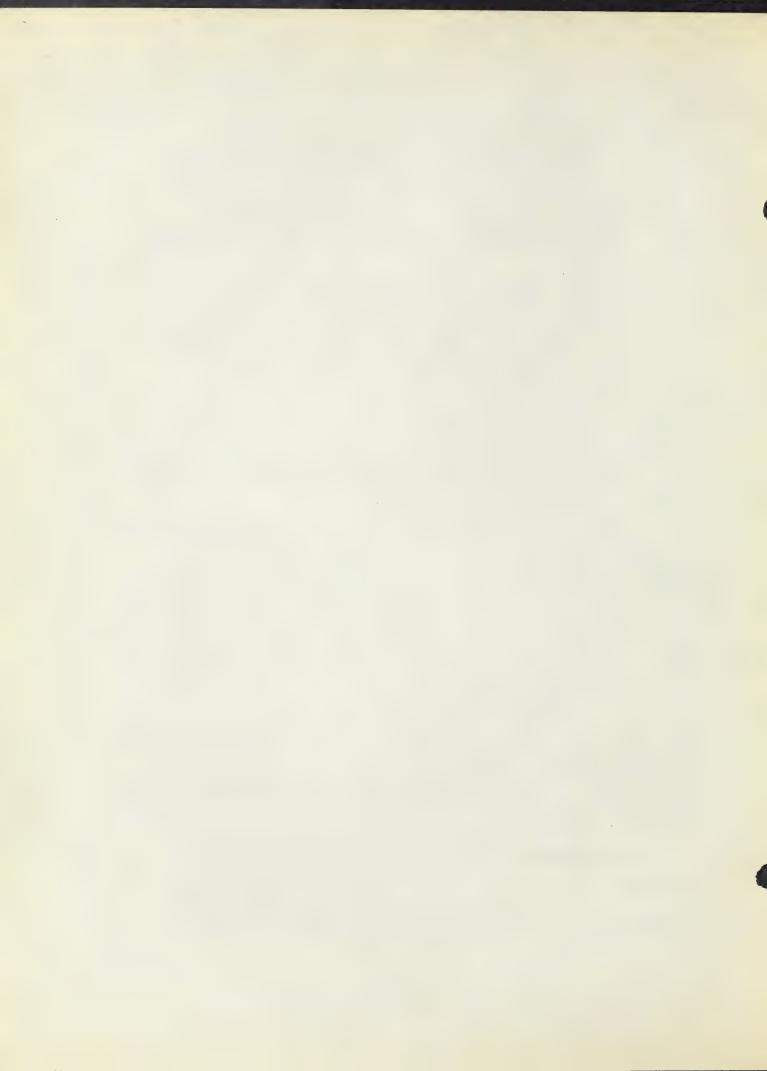
stellata, Smix herbacea, Corvins cornuta, aremone quirquifolis, Clematic virginians, Fanunculus sententrionalis, Falibarda repens, Amphicarps monoics, Thus Toxicodendron, Pairaca renens, Evrola retundifolis var. americana, P.asarifolia, Helianthus decenetalus, and M.etrumosus.

On the oren all wiel banks the following species may be found Calamagnostic canadensis, Tublerbergia recembea, Trisetum spitatum var. molle, Roca blanda, Apios tuberosa, Titis novaeangliae, Vaccinium careritosum, Teirorema ciliatum, Colidago serotina, Leguarrosa, and Aster maniculatus.

On the river gravels and islands one may find Cerex torta, Islix cordata, I.lucide, and Frunus depressa.

I.c. Aquatic Flora. The aquatic flora because of the difficulty of obtaining and preserving good specimens and because of the rather confusing taxonomic problems connected with identifying them correctly, is usually the most poorly represented group in any local flora. I fairly long list may be compiled of the aquatic plants of Grafton lounty which includes the following; ontederia cordata, verious species of Epertanium, and Fotemogeton, Tajas flexilis, toitous forreyi, Brasenia Ichreberi, Tymphaea odorata, Tymphoxanthus microphyllus, I.Varieratus, Tarious Tyriophyll ms, and Ttricularia vulgaris var.

Along the muddy shores one finds Faulsetum limosum, Aliema Flantago-aquatics var. parviflors, various Saggiterias, Moceria borealis, Tulichium arundinaceum, various species of Flencharis,



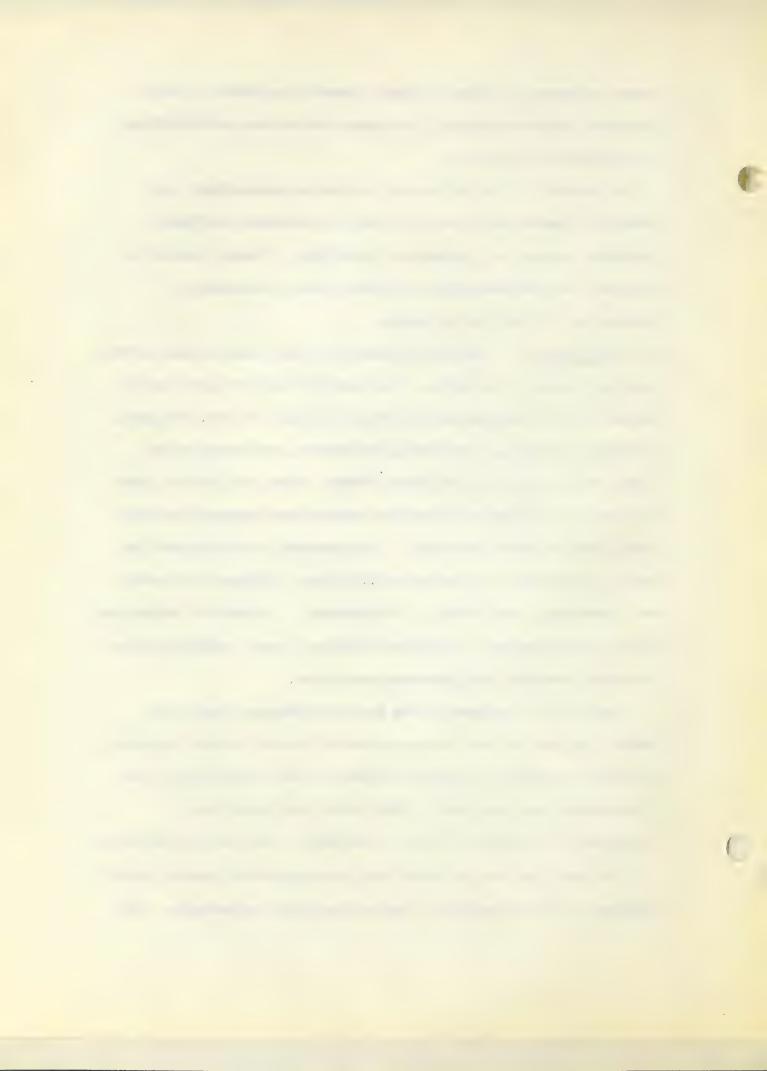
Juncus pelocarpus, Polygonum natans, Prosers longifolia, Ludvigia palustris, Cicuta bulbifera, Lium suave, Scutellaria epilobilifolia, and Utricularia intermedia.

In mools with fire bottoms are "riocaulos sentangulare, and Lobelia fortmanna; while on the shores of such pools one finds
Lyconodium inundatum, Synchosnora capitellata, F. fusca, Tanunculus rentans, Esccinium macrocarnon, Tratiols surea, Utricularia cornuta, and Tallitriche malustris.

I.d. Peat Noge. Ploating or quaking bore are found on some of the pools and ponds of the county. The vascular flora of such bogs is limited to a few species such as Vyrica Wale and its var. subglabra, Potentilla nalustris, hamaedanhne calvulata, and varieties of Bidens cernua. Is the bors become firmer, drier, and safer to move about upon the flowering plants elso become more numerous including such things as Carex Lasiocarns, Coligosperms, Corostrata, and its variety utriculate, Cocanescens var, disjuncts, Scheuzeria nalustrie var. americans, Carex limosa, Comichauxians, Consupercula, Funchismors alba, Juncus canadensis, Imilacina trifolia, Poponia ophicolossoides, Larracenia purpurea, and Hypericum virginicum.

largely replaced by such shrubs as Tyrica Cale and its Var. subglahra, Andromeda glaucophylla, Kalmia polifolia, Ledum groenlandicum, and Phododendron canadense beneath which grow (arex pauciflora, C.trisperma, Friophorum spissum, F.virginicum, and Vaccinium Oxycoccus.

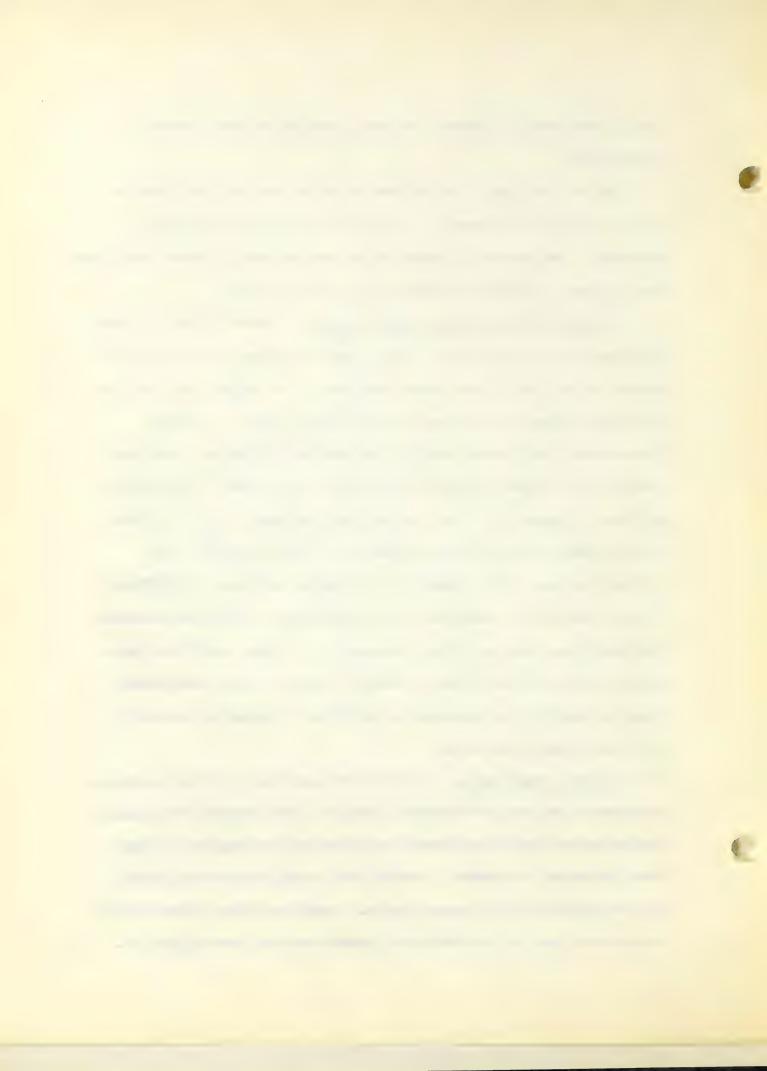
The transition to the forest type may become even greater by the intrusion of Larix laricina, Picea mariana, Pyrus melanocarpa, Posa



nitida, Wemppanthus mucronata, Kalmia angustifolia, and Vibernum cassinoides.

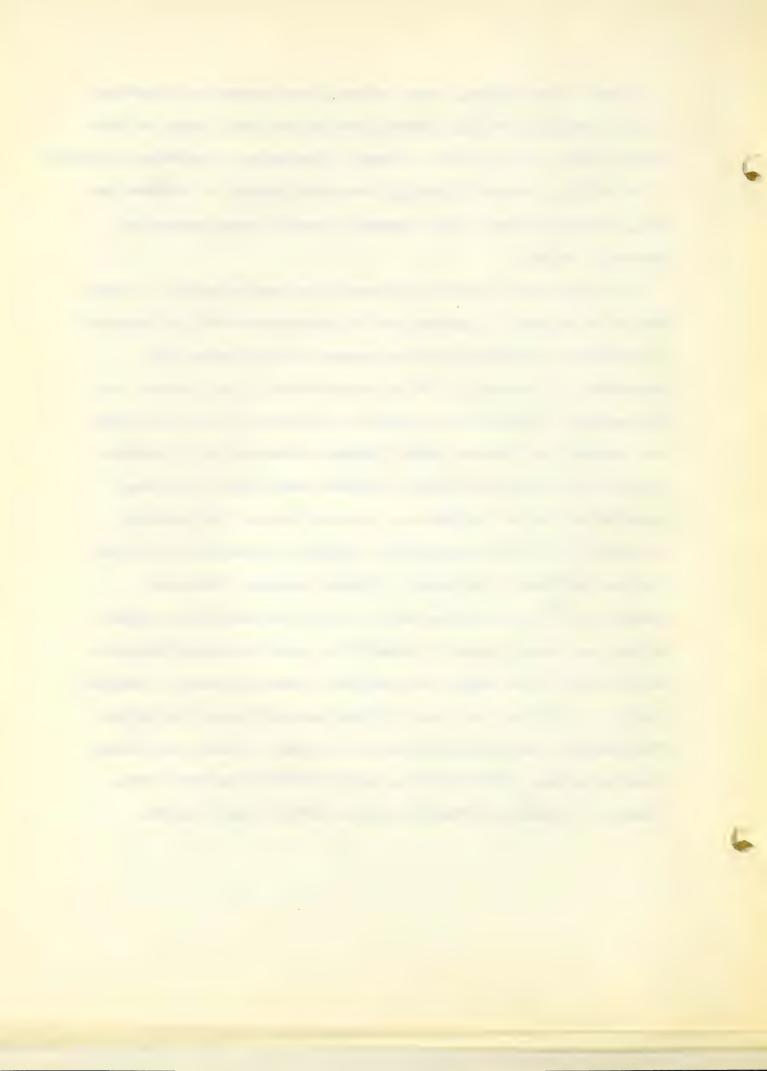
Migh peat bogs are found on some of the mountains, eer wann on Mount consilance for example. In bogs of this type we find Abies balsames, Fices marians, Frubra, Wrienhorum spiesum, Ceirpus caespitosus var. callosus, Jaccinium Dxycoccus, and similar plants.

- I.e. Chaded Cliffe and locky Talus flores. Trafton founts has none of those limestone cliffs and talus sloves so beloved by the hotanist because of the rare plants found upon them. A few cliffs are found in the county haver and on these one may expect to find lardenium Trichomanes, extenteris frazilis, Folypodium virginianum, gropyron caninum var. temerum, asprella Mystrix var. Ligeloviana, phenopholis pallens, solygonum cilinode, thenopodium Boscianum, trenaria stricta, Lilene antirrhina, Aquilegie canadensis, Clematic verticillaria, Adlunia fungosa, trabis trummondi, A.hirsuta. Saxifraga virginiumsis, Fragaria vesca var. americana, Phus Toxicodendron, Telastrus scandens, earthenoclasia vitacea, Vitis novae-angliae, ircaea latifelia, anex quinquifolium, Corona rugosa, Satureja vulgaria, Salium lanceolatum, Vibernum acerifolium, Sampanula rotundifolia, Antennaria Prainerdii, and Bupatorium urticaefolium.
- I.f. _stural Open traces. The natural open spaces of the county are confined to the tops of the high mountains. The largest of the areas are the broad flat top of Yount Moosilanke and the Transcorie Fidge from Mafayette to Maystack. Here we find a real strine flore which may be subdivided into several groups. Among the piles of rock which make up the beaks of Lafayette and Lincoln we find larex rigida var.



nigrum, Lycopodium Lelaro, terostis turcalis, oa laza, Juncus trifidus,
Luxula spicata, Lelix Lya-ursi, Lronaria croenlandica, estentilla tridentata,
L.Robbineiana, iaveneia lapponica, Premanthes Poettii, Litrifolata var.
Tenna, olidaro Lutleri, Carex scirneides, Ingelica atrocureurea, and
Heracleum lanetum.

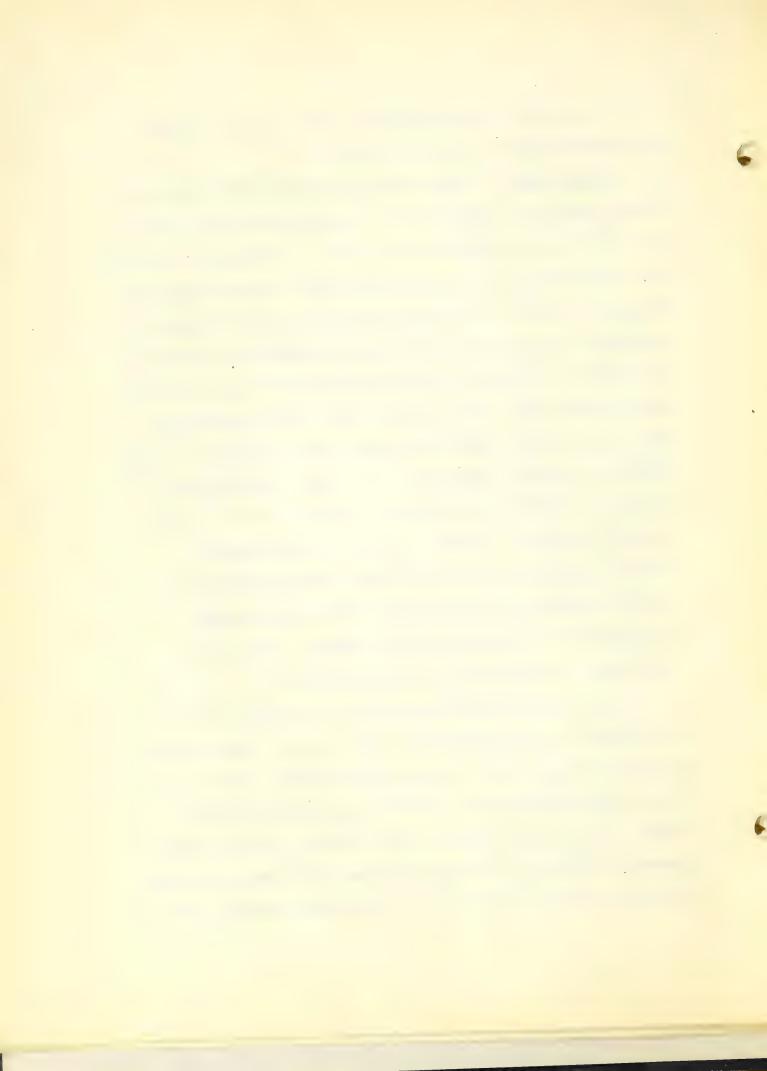
In moist meadow-like choice one finds a far greater variety of plante each as Calamagrostic canadensis and its varieties robusts and Langsdorfi, L. Fickeringii, Mierchloë alpina and odorata, For saluensis, Pares brunnescens, C. canescens, .debilis var. striction, C. lenticularis var. altimontanus, ...lectonervia, firijida var. Rivelovii, Lugula priviflore v:r. welancerra. Veretrum viride. Habenaria dilatata. elim herbacca, .. Iva-urei, Thalyctrum colveanum, Cardamine bellidifolis var. lawa, Cour Pockii, . sirasa latifolia var. sententri malis, Tiola pallens, V. palustris, Inilahim engustifolium, inselica etromursurea, Heracloum lanatum, Loiseleuria procumbens, Phyllodoce coerulea, Vaccinium caesnitosum, V. pennsylvanicum and its variety angestifolium, ionicera villosa var. tonca, Campanula rotundifolia, Inaphilis margaritacea var. occidentalis, krnica mallis var. petiolaris, Aster foliacous, rementhes Boottii, ... trifoliata var. mana, Solidago macronhylla var. thursoidea, Picea mariana, Taccinium uliginosum var. alvinum, Tibernum pauciflorum, Carex scirooiden, Juncus trifidus, Vaccinium Vitis-idaes var. sinus, Totentilla tridentata, Lycopodium Solago, Larostis borealis, etc.



This concludes the natural habitats and we turn now to those habitats which have been influenced by man.

II.a. Burned Lands. Large areas were unquestionably burned over by forest fires set by lightning before the event of man but by far the most destructive fires have occurred since the settlement of the county by the whitemen and since lumbering operations have been carried on extensively. Much of the western slope of the Franconia Range has been burned over and the country between the Profile Golf Links and Twin Mountain laid waste by fire in fairly recent times. The first tree to appear after a fire is almost always Frunus pennsylvanica. Among the plants which soon begin to make their appearance are Rumer acetosella, Corydalis sempervirens, Pubus idaeus var. strigosus, apilobium angustifolium (the well known Fireweed), Aralia hispida, Gaultheria procumbens, Vaccinium canadense, V. pennsylvanicum, Anaphalis margaritacea, Aster acuminatus, Gnaphalium decurrens, Solidago canadensis and other species, Populus grandidentata, F. tremuloides, Salix rostrata and other species, Betula lutea, B. papyrifera, Acer spicatum, and A.ponnsylvanicum.

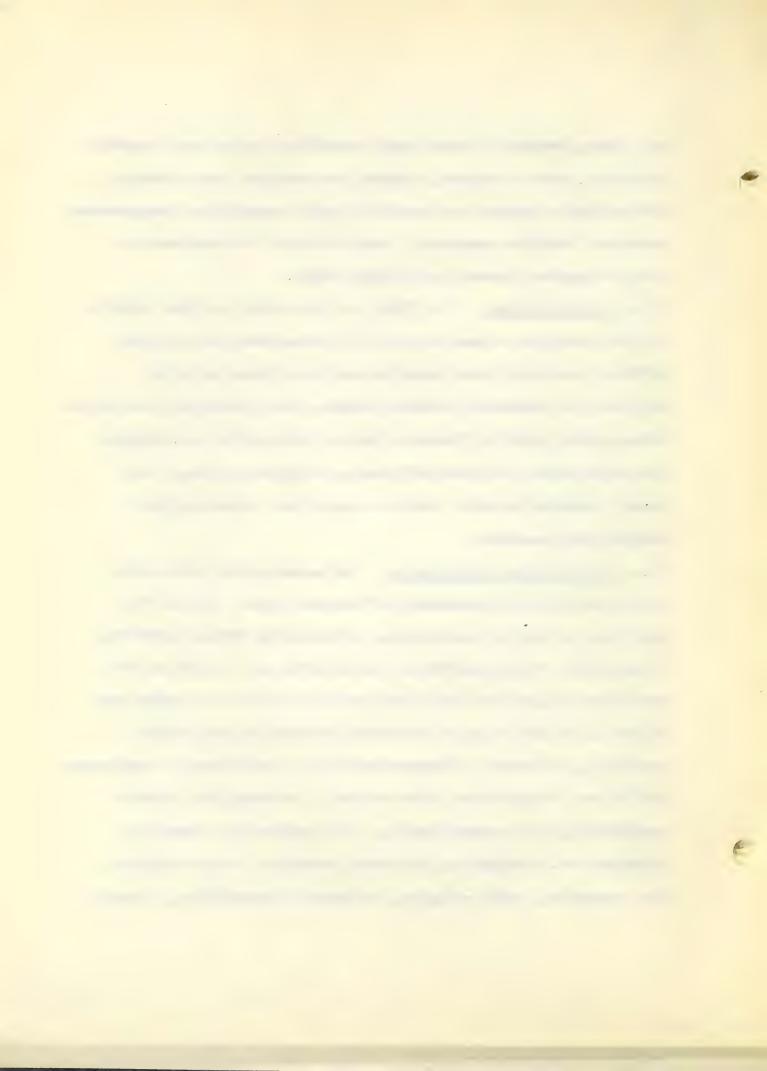
In places where the soil formed only a thin coating over the rock beneath it often happens that a forest fire will burn deep down into the humus and expose the bare ledge once more. Then this takes place a rather different set of plants is found such as Toodsia ilvensis, Selanginella rupestris, Pinus resinosa, Agrostis hyemalis, Deschampeia flexuosa, Muhlenbergia racemosa, Carex aenea, Polygonum cilinode, Paronychia argyrocoma ver. albimontana, Arenaria groenlandica



ver. glabra, Corydalia sempervirena, Amelanchies atolonifera, Potentilla tridentata, Pyrus floribunda, Empetrum atropurpureum, Aralia hispida, Arctostaphylos Ova-ursi var. coactilia, Kalmia angustifloia, Phododendron canadense, Vaccinium canadense, V, pennsylvanicum, V.Vitis-idaea var. minus, Melampyrum lineare, and Solidago Pandii.

II.b. Recent Cuttines. The flora of a tract which has been recently cut over resembles in some ways that of a burned area but is slightly different including Prunus pennsylvanice, Rubus idaeus varieties strigosus and canadensis, Sambucus racemosa, Aster acuminata, Avena sativa, Calemagrostis, Dactylis glomerata, Carex crinita and its var.gynandra, eum macrophyllum, Melilotus officinalis, Trifolium agrarium, Zizia aurea, Galeopsis Tetrahit, Prunella vulgaris var. lanceolata, and Scrophularia lanceolata.

II.c. bryigh Second Growth Woods. The second growth which springs up is almost always predominently of hard wood types. Here we find such trees as Populus grandidentata, P. tremuloides, Betula papyrifera, S. populifolia, Pagus grandifolia, Acer spicatum, and A. saccharum with some bbies balsamea and Picea rubra scattered thru it. The underbrush is made up of such plants as Lycopodium annotinum and its variety acrifolium, L. clavatum, S. obscurum and its var. dendroideum, E. complanatum and its var. flabelliforme, Carex arctata, C. novae-angliae, Uvularia seesilifolia, Viola septentrionalis, Aralia nudicaulis, Chimaphila umbellata var. cisatlantica, Gaultheria procumbens, Pyrola chlorantha var. paucifolia, Pyrola elliptica, Apocynum androsaemifolium, Tiervilla

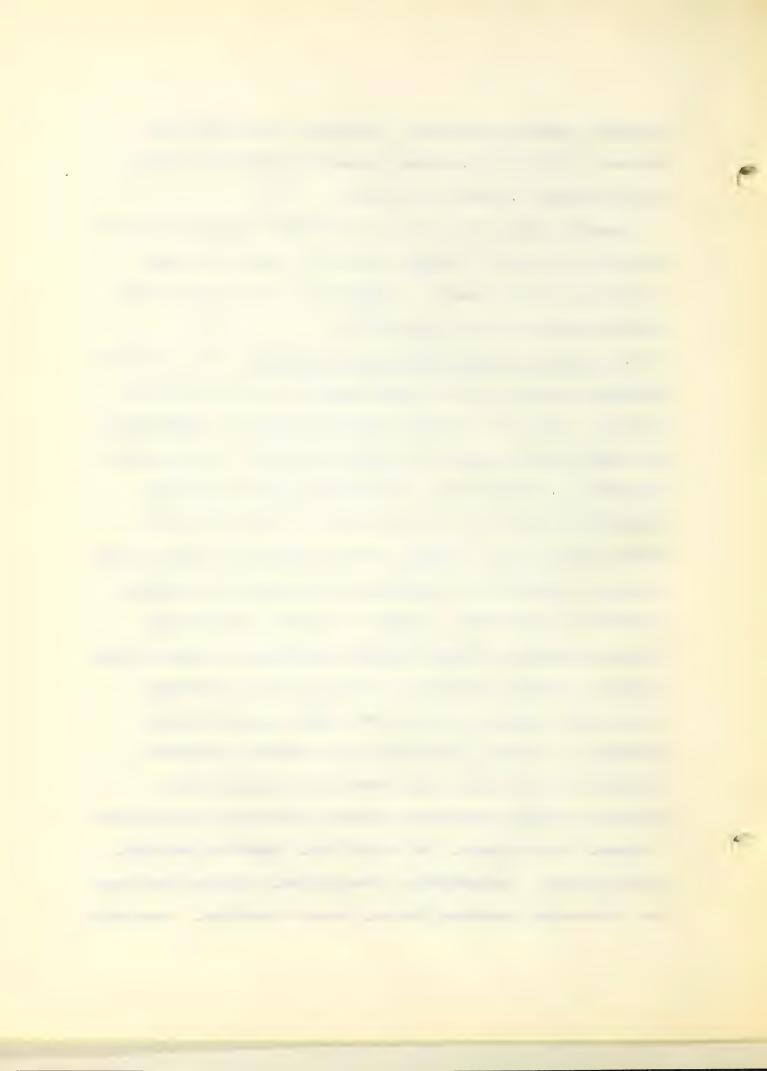


Lonicera, Antennaria canadensis, A. mendicica, Aster cordifolius, Hieracium maniculatum, H. scabrum, Lactuca canadensis and varieties, bolidago arguta, L. caesia, and S. juncea.

slong the edges of old pastures the following species may be added

Lyconodium tristachyum, igropyron caninum var.tenerum,)ryzonsis asperifolia, Panicus boreale, P. vanthophysum, Carex communis, illium philudelphicum, and Myrice aenlenifolia, II.d. Low Swempy Decond-Growth Boods on Poor Boil. The trees which dominate in second-growth in swampy ground are ager pennsylvanicum, A.rubrum, A.spicatum, A.saccharum, and Fraxinus nigra. Sancath these one finds Athyrium angustum. Thelypteris Irvopteris, ... spinulose var. intermedia, T. noveboracensis, T. Phegopteris, Camunda Claytoniana, quisetum sylvaticum var. pauciramosus and its form multiramosus, Bromus ciliatus, Cinna latifolia, Elvoeria melicaria, E. etriata, Carex projecta, ... crinita and its varieties, ... brunnescens, ... romoides, C. loweyone, . . lectonervia, C. arctata, C. scabrata, C. intracecons, brisaema triphyllum, "lintonia borcalia, "aianthemum canadense, "edeola virginica, Tvularie sescilifolia, Trillium erectum, T. moulatum, Corallorrhiza meculata, C. trifida, Cvoripadium acquie, Mahanaria hyperbores, H. dilatata, H. orbiculata, H. macrophylla, H. fimbriata, H, viridis var. bractesta, Coptis groenlandica, hryeosalenium americanum, Tiarella cordifolia, Hamamolis virgiciana, Pyrus americana, P.dumosa, Rubus pubescens, Ilex verticillata, Temomenthus mucromata, Viola incognita, V. rotundifolia, Circaes alpina, Upilobium glandulosum

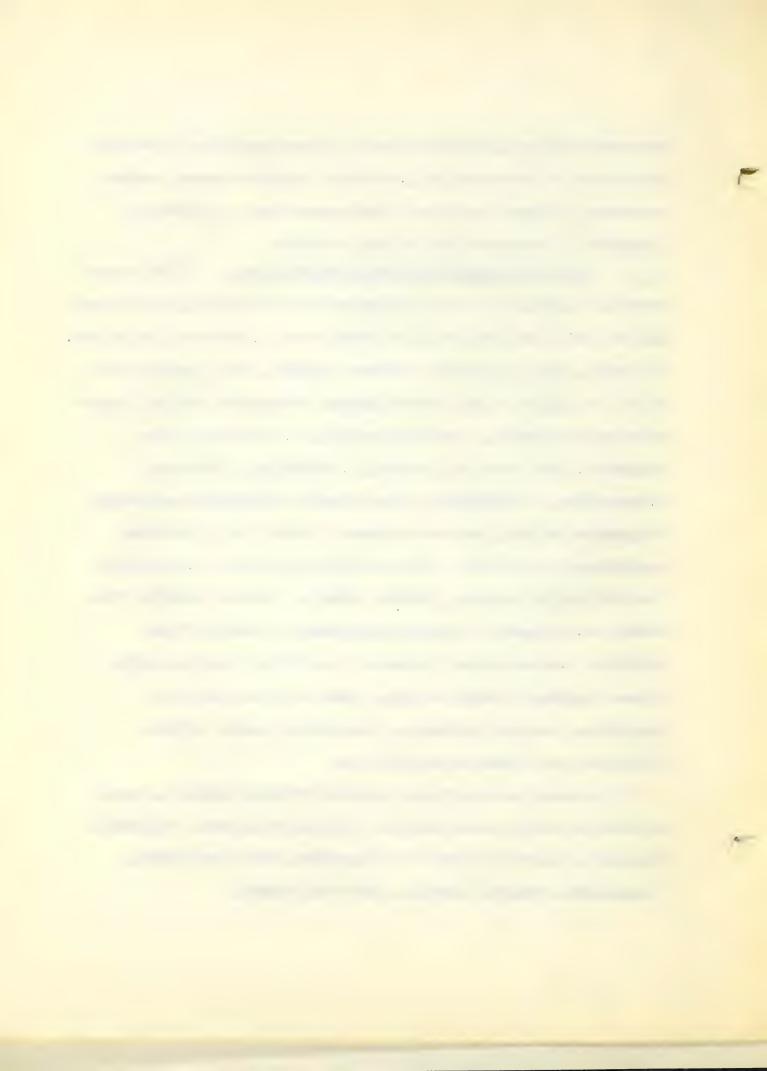
var. adenocaulon, Jenorhize Claytoni, Corque alternifolia, C. canadensie,



Aonotropa uniflora, Trientalis borcalis, Lyconus americanus, coutellaris lateriflora, Salium asprellum, Ltriflorum, Litchella repens, Sonicera canadensis, Vibernum alnifolium, Aster macrophyllus, A.cordifolius, A.puniceus, A.acuminatus, and Solidago latifolia.

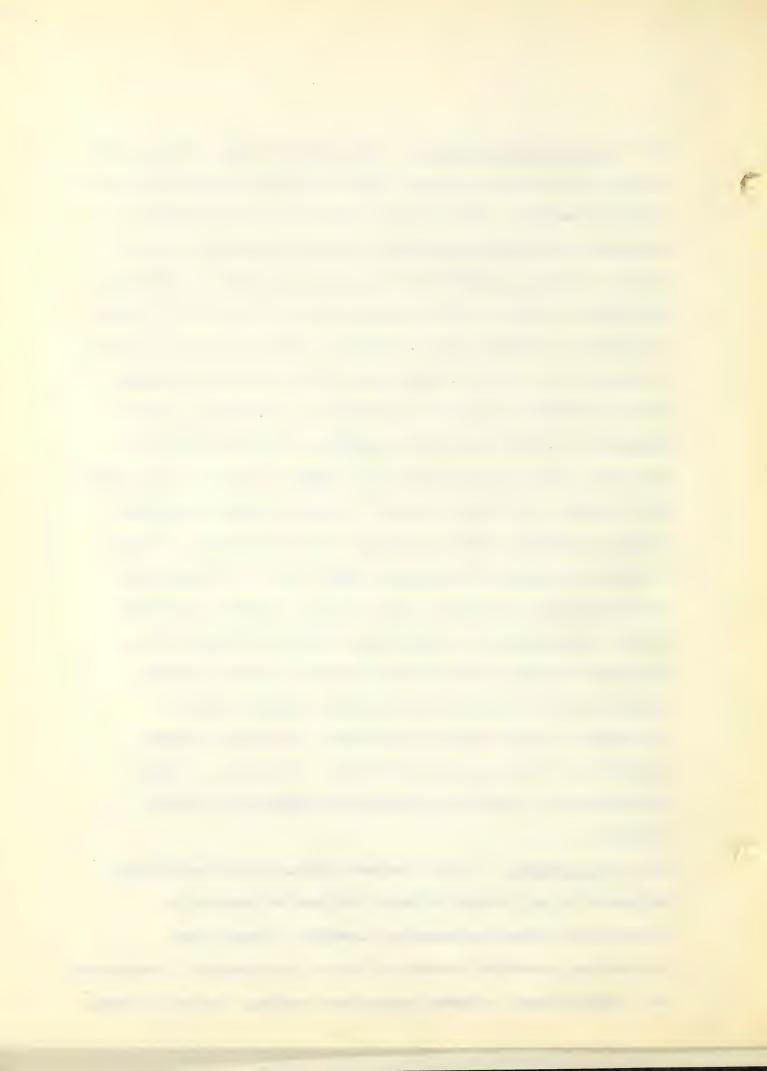
II.e: Old Moist Toland-Second-Frowth Second Growth. In the unlands where acer saccharum is the predominating tree the following woody plants may be added to the preseding list Betula lutes, B. papyrifers and its var. cordifolia. Fagus grandifolia. Fraxinus americana. Tilis americana, etc. and to the smaller plants Adiantum pedatum, Thelyptoris Goldiana, Botrychium angustisegmentum, P. matricariaefolium, P. virginianum, Taxus canadensis, Carex roses var. radiata, C.conhaloidea, C.albicans, C.plantaginea, C.platyphylla, Allium tricoccum, Frythronium americanum, Polygonatum biflorum, Laportea canadensis, Urtica Lyalli, Claytonia caroliniana, ictaes rubra, A.alba, Ranunculus abortivus, R. recurvatus, Caulophyllam thalictroides, licentra Cullaria, Lentaria diphylla, Nibes triste var. albinervium, Agrimonia gryposepala, .. striata, Viola Selkirkii, V.eriocarpa var. leiocarpa, V.renifolia, Lirca paluatria, Circasa canadensis, Iralia racemosa, Panax trifolium, Osmorhiza longistylus, lanicula marilandica, Cynoglossum boreale, Tpifagus virginiana, and Tupatorium urticaefolium.

If the woods are also fairly rocky the following species may also be found Folyetichum acrostichoides, F.Braunii var.Purchii, Thelyeteris marginalis, Asperella Hystrix var. Bigeloviana, Gerex pedunculata, C.longiostris, Hepatica americana, and Bubus odoratus.



II.f. Oren cadows and Swales. The meadows and swales of the county contain a large variety of plants among which may be expected such things as Unoclea sensibilis. Thelypteris cristata, T. valustris, Demunda cinnamones, Jalamagrostis canadensis, Clyceria canadensis, Jagrandis, auhlenbergia foliosa. Carex canescens and its varieties disjuncta and subfoliacea. .. crimite, and its variety gynandra, C.debilis var. Fudgei, C.gracillina, C.lenticularis, C.leptalea, C.lurida, C.sticata, .stricta, C. vesicaria, var. jejuma, C. vulpinoidea, Triophorum viridi-carinatum, Scirpus atrucinetus and its var. georgianus, E. rubrotinetus, Luzula campestris ver. nultiflora, lilium camadonse, leratrum viride, Iris versicolor, listrinchian angustifolian, Rebenaria fimbriate, Losvohodes, Calix cordate, F. Siscolor, L. lucida, C. serica, Polygonum serittatum, Arenaria lateriflora, Caltha valustria, Thalictrum polygamum, Fragaria virginians and its var. terrac-nevae, Seum rivale, S. strictum, Subue canadensis and its relatives, "iola cucullata, V. nallens, "nilohium densum, ... glandulosum var. adenocaulon, I.molle, Heracleum lanatum, Avdrocotyle americana, Zizia aurea, Lysimachia terrestrie, entha arvensis and its varieties, chalone glabra, eronica americana, V. acutellata, Lalium acorellam, S. Claytoni, M. calustre, Campanula acarinoides, .ster paniculatus, A. cuniceus, A. umbellatus, rigeron pulladelphicus, Louichellus, Lucatorium maculatum, and Lenicio Fobbinsii.

II.g. Lry factures. The dry mastures also contain a large variety of species but of a rather different sort such as Lennet-eitia punctilobula, Botrychium dissectum, R. simplex, R. ternatum var. intermedium, Lycopodium clavatum and its var. megastachyon, L. complanatum var. flabelliforms, Juniperus communis var. depressa, Lanthonia spicata.

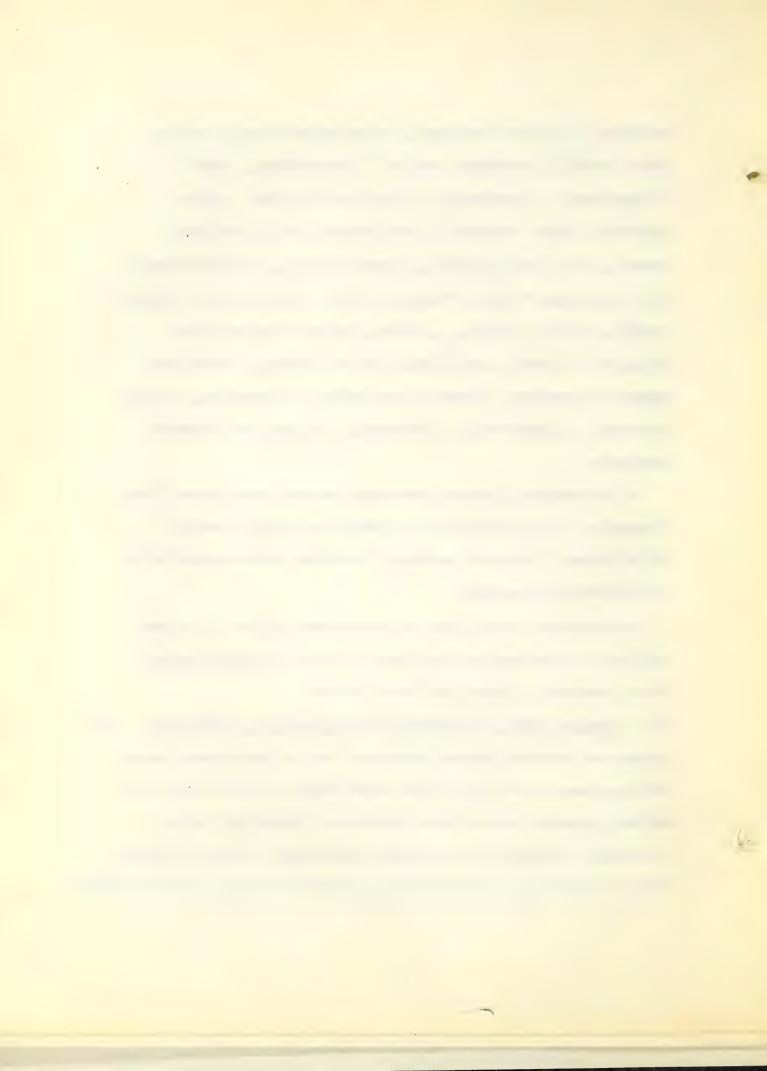


Varieties of Panicum Lindheimeri, Poe pratencis, Carex umbellata,
Juncus Greenii, Spiranthes gracilis, C. Momanzoffiana, Pubus
alleghaniensis, R. canadensis, R. idaeus var. strigosus, Spiraea
latifolia, Lechea in'ermedia, Viola septentrionalis, Jenothera
perennis, Vaccinium canadensis, V. pennsylvanicum, Frunella vulgaris
var. lanceolata, Verbascum Thaveus, Veronica serpyllifolia, Moustonia
caerulea, Lobellia inflata, L. spicata, Anaphalis Eargaritacea,
mntennaria neglecta, A. petaloidea, Girstum arvense, C. lanceolatum,
Gnaphalium decurrene, Mieracium aurantiacum, M. florentinum, Solidago
canadensis, L. graminifolia, S. nemoralia, S. rugosa, and Sarazacum
laevigatum.

If the pasture is more or less bog y one may expect Carex flava, C.scoparia, Juncus effusus and its varieties, Liparis Losselli, Salix rostrata, Hypericum canadense, H.mutilum, Kalmia angustifolia, and Phododendron canadense.

When pastures are not used and are allowed to grow up, as many are today, the herbaceous plants soon give way to thies halsamea, Ficea canadensis, P.rubra, and Pinus Strobus.

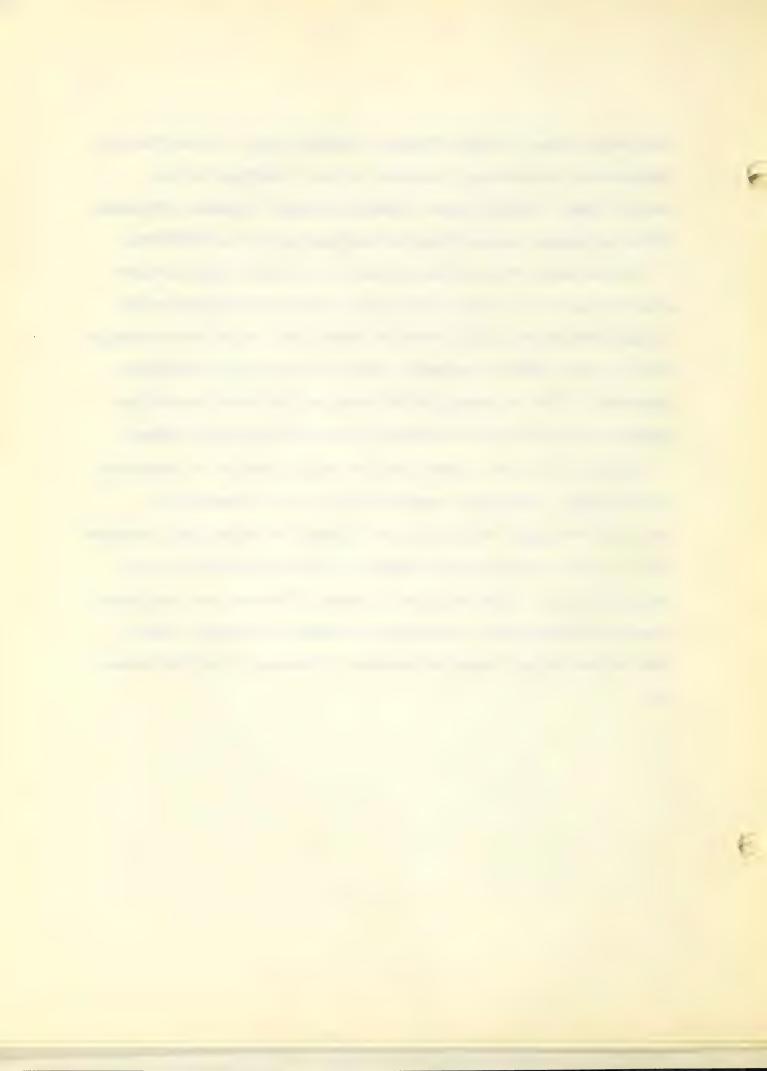
gardens and fields of Grafton County are full of the ordinary weeds which are common over much of the United States. Among these one may include igropyron repens, Rumex (cetosella, Chenopodium Botrys, C.hybridum, C.lanceolatum, Amaranthus retroflexus, Epergula arvensis, Stellaria graminea, Agrostema Githago, Manunculus repens and its varieties,



Cheliconium lajus, Tertascum Thaepus, Flonts a major, Arbillen itamilea, Chrysonthau m Laucenthaum, lanacetum vultare, Tussilaro Farfara, Arctium Lappa, Linsium arvense, Thiourium Latylus, Tarayacum officinale, Lonchus arvensis, Losper, Fieracium aurentinoum, and A. Florentinum.

abundant than it is at the present day. The horse transmitted in of the past century sorred many weeds broadcast over the of the standard to settlish the dirt roads offered a favorable place for these weeds to settlish themselves. Tith the ressing of the horse and the event of siled and macedom roads the enread of weeds has probably been goe the reduced.

by the trains. The classic example of this type of dispersal is amount officinalis which may often be found for miles along a railroad track. Ther plants which are probably cored in a similar may are fragroutis will a, area "puritonii, Typerus filiculais var. macilentus, tenophyllus capillaris, "pleropella articulata, "pergularia rubra, bin m oritoticsi ma, "un"orbis corollata, "hirada, "iola find lataba, etc.



COMOLUSION

I. Statistical Summary. The preceding table shows that the total number of species, varieties, and forms as yet collected from Grafton County is 1145. This is only 152 less than the total of 1297 which Tease records from Gods County after collecting there extensively for over twenty years. This seems to indicate that the Trafton County flore has been surprisingly well covered even though no special effort has been made to work up the flore of that region. (1.)

The following families are represented by more than 25 species, varieties and forms.

Cyneraceae	143
Compositae	135
Gramineae	93
Rosaceae	34
Fricaceae	47
Colvoodiaceae	35
Orchidaceae	32
Ranunculacese	23
ruciferse	26

lividing these figures by 1145, the total flors, gives one the percentage of the total flore represented by each family. The percentage of the same families as they are represented in Tray's Lanual is shown in the second column. (2.)

- 1. Pease 1924 . rac. Ros. Soc. Mat. Rist. 37 3 p.130
- 2. Robinson and Ternald 1907 Gray's Manual o. 23-27.

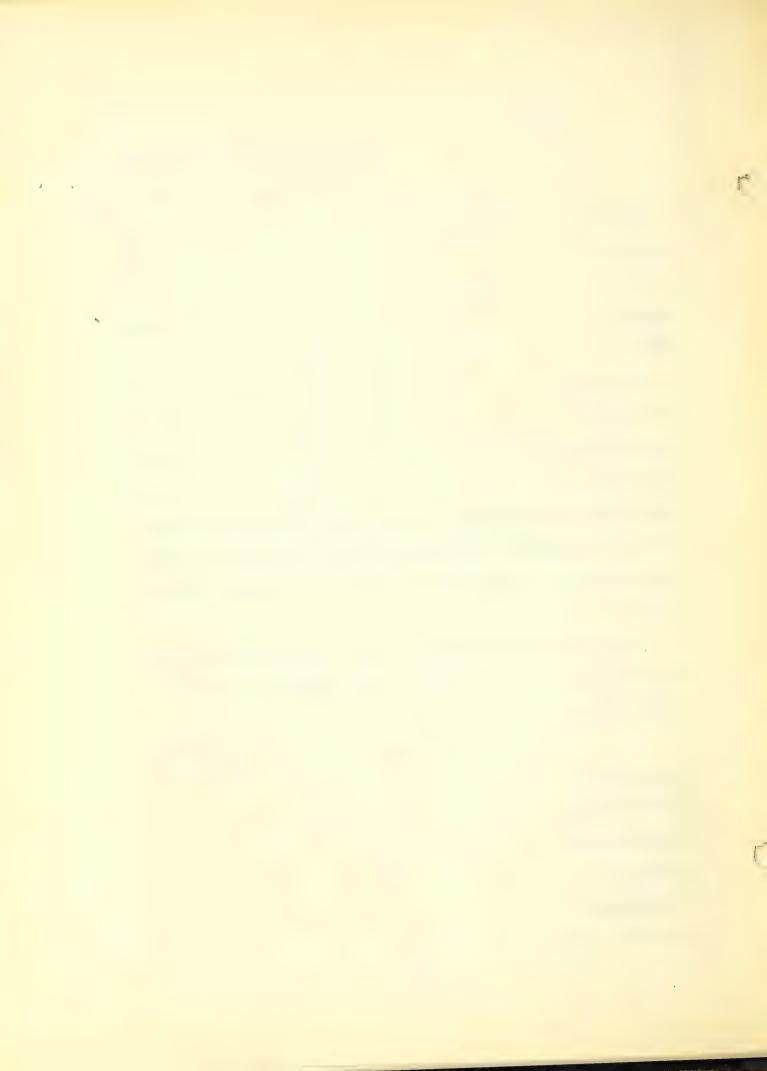


	Percentage of the	Percentage of the
	Grafton flora	manual flora
Cyperacene	.124	.095
Compositae	.117	.134
Gramineae	.781	.037
hosaceae	.973	.059
Ericaceae	.041	.019
Polypodiaceae	.730	.016
Orch1daceae	.027	.015
Ranunculaceae	.024	.027
Cruciferae	.022	.024

A comparison of the two sets of figures shows that the Cyperaceae, Rosaceae, Ericaceae, Polypodiaceae, and the Orchidaceae are rather over-represented in our county.as compared with the Manual range as a whole.

In the following families with a total representation of more than three the number of introduced forms exceeds the number of native forms.

	Native	Introduced
Polygonaceae	5	7
Chenopodiaceae	1	3
Carvophyllaceae	9	12
Gruciferae	9	1.8
Euphorbiaceae	1	24
Scrophulariaceae	9	10

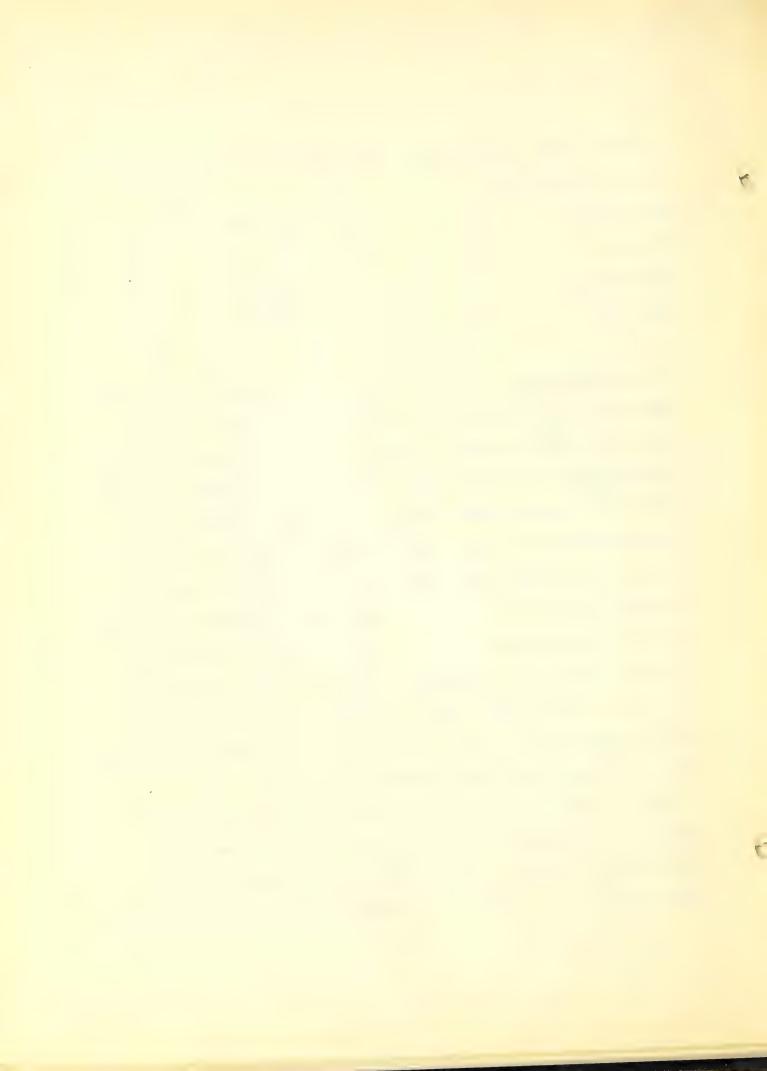


Families with a total of more than 10, all of which are native are shown in the next list.

Polymodiaceae	35	Cyperaceae	143
Wauisetacese	11	Juncaceae 21	
Lycopodiaceae	15	Orchidaceae	32
Najadaceae	12	Betulaceae 14	
	Ericaceae	47	

II. Collecting Lone. Thile the total of 1145 species, varities, and forms gives a fairly good idea of the flora of the county as a whole, a glance at the table showing the number of species, varieties, and forms collected from each town shows that very little can be deduced as to the distribution of plants within the county. Lebanon has been the most extensively collected township but even there the total of 124 is less than half of the known flora of the county. Ever 200 forms have been collected from Franconia, Holderness, and Wanover and Woodstock, Plymouth, and Warren have yielded up over 100. Only one species has been taken from Lyman, Froton, and Grange while the floras of Sath, Fartlett Land and Lumber Company, Raymond Grant, Ellsworth, Pumney, and Grafton are not represented at all. Every township should have a known and collected flora of at least 1000 species, varieties, and forms.

Let us take the matter up from another angle. It has often been stated that the collection of plants in an herbarium represents the rare plants of the area. Most collectors have a tendency to collect and preserve the rare and striking species they find while the familiar



everyday plants are too often ignored. Hence a study of the plants in the herbarium where their plants are deposited is not to give a rather one-sided picture of the flora of the area. Ach seems to be the case in Grafton County. For example Pease has a list of 12 members of the Orchidacece from Lods County (1.) and Grafton ounty also has a total of 32 of this family, but lease also has a total of 31 in the family Polygonaceae while the total from Grafton County is but 12. . urely there must be at least as large a number of this family of weeds in Grafton County as in Cods. The reason for the different totals is simple. The orchids are rare and showy and are collected by any botanist who sees one while the polygonums are weeds in every ward and marden and are so common that the collector very selded takes one. Subularia aquatica is a rather rare aquatic plant in northern New logiand and has been collected from Grafton County 13 times from three different towns while Capsella Bursa-pastoris, the next remus to it in the Manual and a common weed, has never been collected in the county, yet it is safe to say that there are 100,000 plants of Cansella to every one of Subularia in the county.

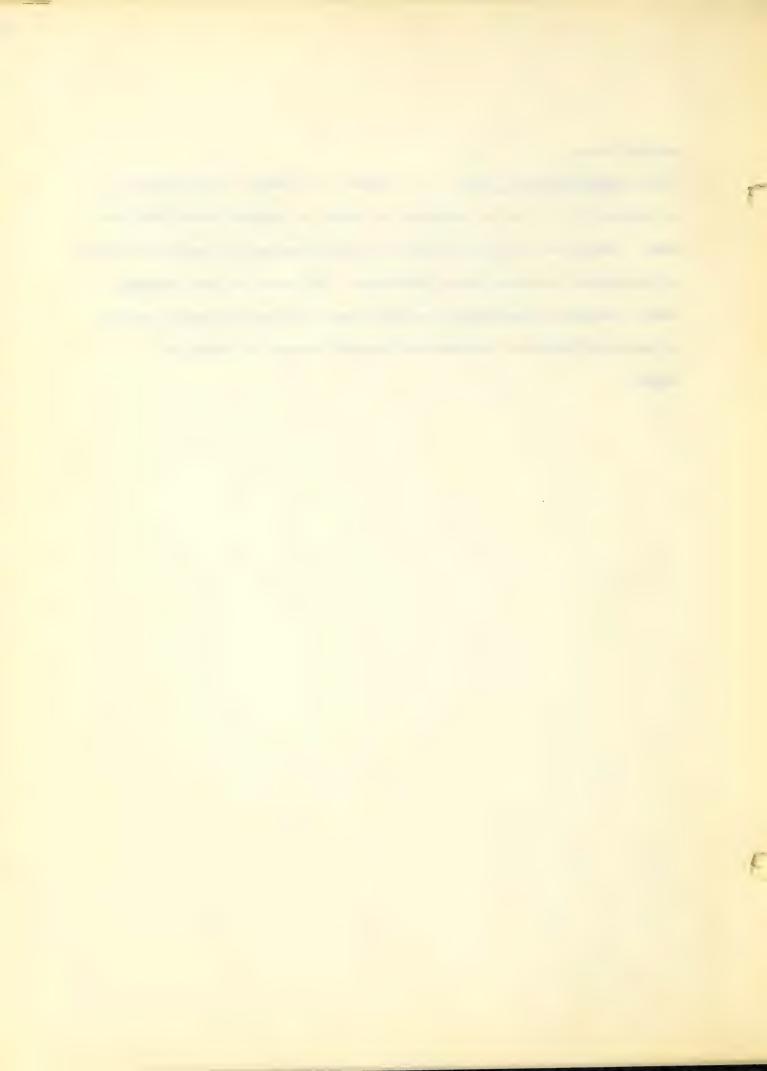
the native flora is much better represented in Fraction County than is the introduced flora. Grefton County shows a total of 969 native plants as compared with a total of 973 in Pease but the total of the introduced plants from the county is only 176 as compared with 324 in Pease. This is just another demonstration of the fact that the botanist unless he is taking a special study of an area will collect weeds only

Pease 1924 Proc. os. Joc. Mat. Wist. 37 3.



now and then.

be studied with a view to increase the number of enecies known from the area. : necial work should be done to find and collect as many as nossible of the plants introduced into the county. The botany of each township needs a thorough investigation so that some adequate idea may be evolved of the distribution of the various species through the county as a whole.



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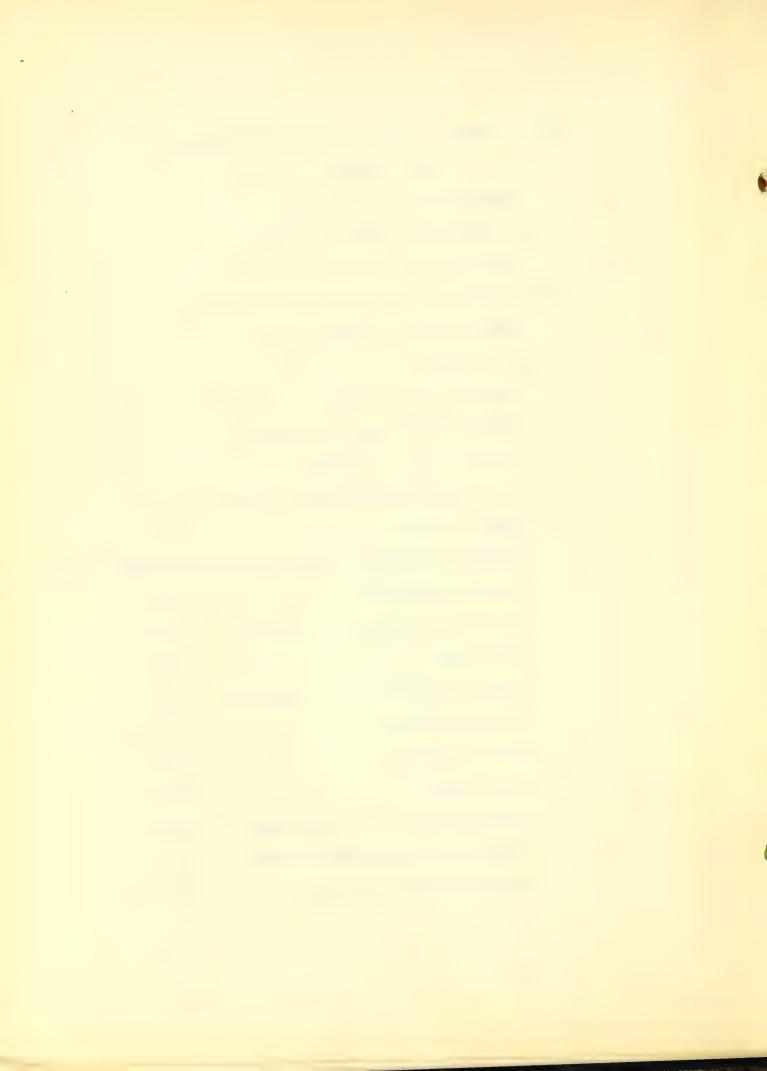
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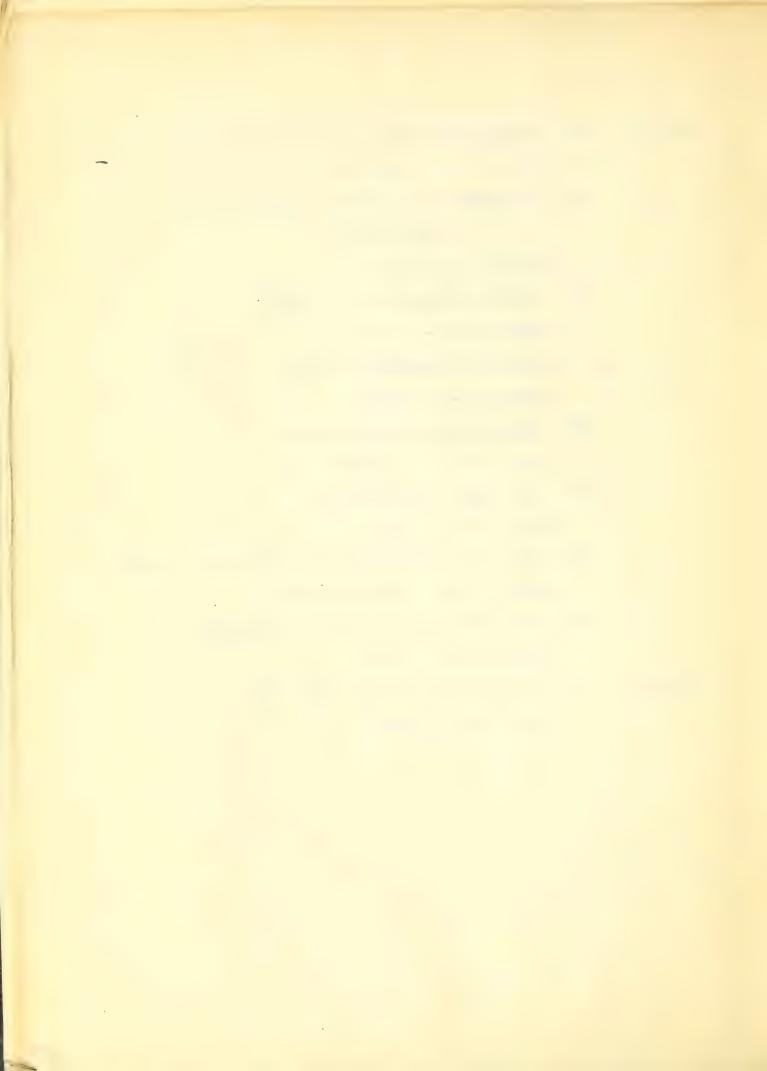
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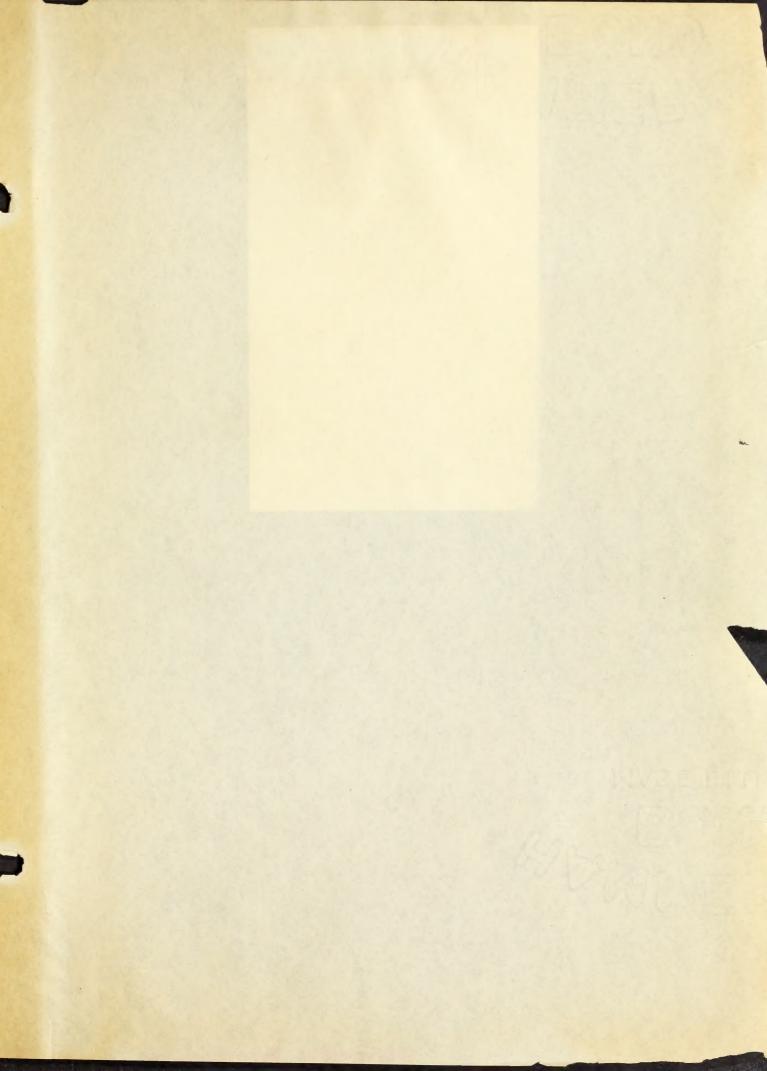
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